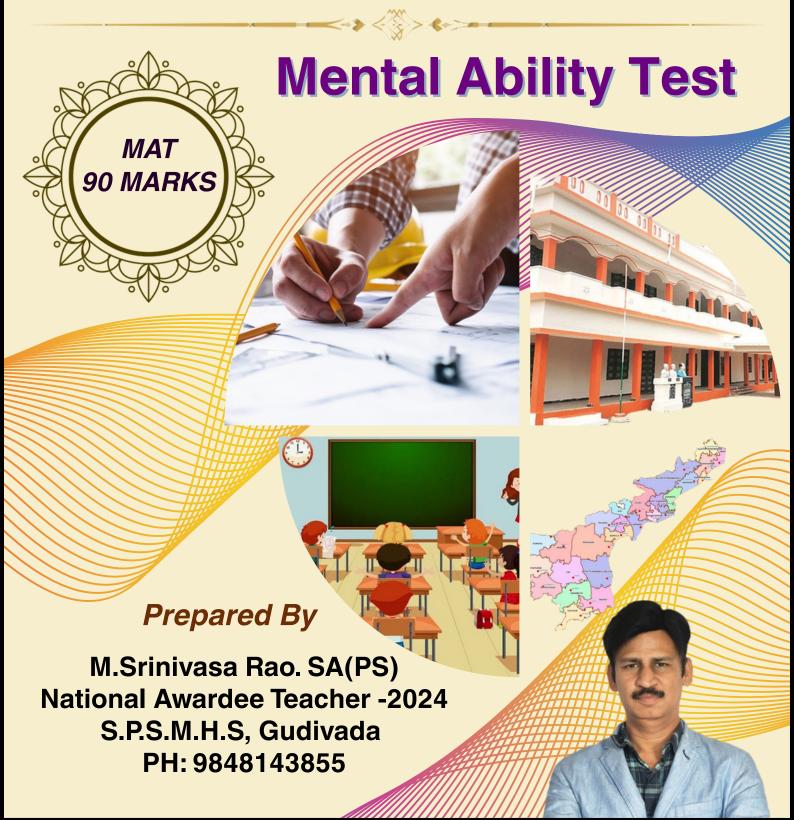


National Means Cum Merit Scholarship



1

Number Series

Number Series

In this type of series, the set of given numbers in a series are related to one another in a particular pattern or manner. The relationship between the numbers may be (i) consecutive odd/ even numbers; (ii) consecutive prime numbers; (iii) squares /cubes of some numbers with/ without variation of addition or subtraction of some number; (iv) sum/ product/ difference of preceding numbers; (v) addition/ subtraction / multiplication/ division by some number; and (vi) many more combinations of the relationships given above.

Examples

1. Which number will complete the given series?

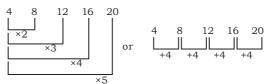
4, 8, 12, 16, ?

- (A) 18
- (B) 20
- (C) 22
- (D) 24

Solution

(B) The series is made of numbers which are multiples of 4. Other explanation can be that the difference between the two consecutive numbers is 4.

$$4 \times 2 = 8$$



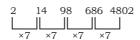
2. Complete the given series

2, 14, 98, 686, ?

- (A) 1976 (B)
 - ()
- 2548 (C)
- 980
- (D) None of these

Solutions

(D) The numbers are multiplied by 7 to obtain the next numbers.



ASSIGNMENT-1

Direction (1 to 20) In each of the following questions a number of possible answers are given, out of which one answer is correct. Find out the correct answer

1. Insert the missing number: 5, 8, 12, 17, 23, ____, 38

- (A) 29
- (B) 30
- (C) 32
- (D) 25

2.	Insert the missing nu	mber: 4, 9, 20, 4	3, 90		
	(A) 185	(B) 172	(C) 179	(D)	165
3.	Insert the missing nu	mber:1, 1, 4, 8, 9	, 27, 16,	, ,	
	(A) 25	(B) 36	(C) 125	(D)	64
4.	Fill in the missing nu	mber: 2, 6, 3, 4, 2	0, 5, 6, ?, 7	, ,	
	(A) 25	(B) 42	(C) 24	(D)	18
5.	Fill in the missing nu	mber: 1, 5, 11, 19	9, 29, ?	, ,	
	(A) 47	(B) 41	(C) 39	(D)	55
6.	Fill in the missing nu	mber: 3, 6, 21, 28	3, 55, 66, ?, 120	, ,	
	(A) 106	(B) 108	(C) 105	(D)	102
7.	Fill in the missing nu	mber: 5, 13, 25,	41, ?, 85, 113, 145	, ,	
	(A) 42	(B) 64	(C) 63	(D)	61
8.	Fill in the missing nu	mber: 4, 5, 9, 18,	34, ?	, ,	
	(A) 42	(B) 59	(C) 38	(D)	None of these
9.	Fill in the missing nu	mber: 1799, 899,	449, ?	, ,	
	(A) 333	(B) 114	(C) 111	(D)	224
10.	Fill in the missing nu	mber: 23, 35, 57,	711, ?	, ,	
	(A) 1117	(B) 1317	(C) 1113	(D)	713
11.	Fill in the missing nu	mber: 5, 11, 19, 2	29, ?	, ,	
	(A) 31	(B) 52	(C) 41	(D)	51
12.	Fill in the missing nu	` '	0, ?, 105, 168	, ,	
	(A) 61	(B) 62	(C) 60	(D)	63
13.	Fill in the missing nu	mber: 15, 20, 30,	•	, ,	
	(A) 45	(B) 40	(C) 48	(D)	50
14.	Fill in the missing nu	mber: 11, 10, ?,	•	` ,	
	(A) 110	(B) 111	(C) 101	(D)	None of these
15.	Fill in the missing nu	` '	` ,	, ,	
	(A) 45	(B) 62	(C) 65	(D)	55
16.	Fill in the missing nu	mber: 5, 18, 10,	12, 15, ?	, ,	
	(A) 4	(B) 8	(C) 6	(D)	10
17.	Fill in the missing nu	mber: 12, 8, 14, 6	5, 16, ?	, ,	
	(A) 18	(B) 4	(C) 32	(D)	10
18.	Fill in the missing nu	mber: 6, 15, 35,	77, ?	, ,	
	(A) 87	(B) 143	(C) 133	(D)	103
19.	Fill in the missing nu	mber: 3, 15, 35, 3	99, 143	, ,	
	(A) 68	(B) 58	(C) 63	(D) 45
20.	Fill in the missing nu	mber: 4, 7, 11, 18	3, 29, 47, ? , 123, 19		
	(A) 71	(B) 82	(C) 76		77
	· ·	ASSIGN	,	. ,	
	ambers in the following	g questions have a		neir (order. Determine the
_	n and fill in the missin	g number			
21.	28, 27, 25, 22,	(D) 17	(0) 10	(T)	. 01
	(A) 15	(B) 17	(C) 18	(D) 21

	PRI	EVIOUS YEAR	NTS	E QUESTION	S
	(A) 31	(B) 39	(C)	36	(D) 42
40.	5, 10, 8, 16, 12, 24,	18,			
	(A) 39	(B) 42	(C)	49	(D) 53
39.	3, 9, 4, 16, 5, 25, 6,	•	. ,		. ,
		(B) 15	(C)	9	(D) 10
38.	5, 9, 6, 10, 7, 11, 8,		(~)		(-) >
J.,	(A) 25	(B) 3	(C)	18	(D) 9
37.	1, 2, 2, 4,, 6, 4,	•	(~)	202	(2) 107
50.	(A) 102	(B) 408	(C)	202	(D) 154
36.	(A) 28 7, 22, 67,, 607	(B) 29	(C)	27	(D) 26
35.	9, 19, 12, 25, 14,		(0)	07	(D) 06
25	(A) 56	(B) 63	(C)	42	(D) 69
34.	6, 18, 3, 21, 7,,		(0)	40	(D) 60
24	(A) 18 ½	(B) 20 ½	(C)	18 3/4	(D) 20 ½
33.	4, 6, 9, 13½,	(D) 00 1/	(0)	10 3/	(D) 00 1/
22		(B) 26	(C)	28	(D) 25
32.	32, 27, 30, 29,,		(0)	0.0	(D) 05
20	(A) 16	(B) 30	(C)	32	(D) 28
31.	2, 6, 14,, 62, 12		(0)	20	(D) 00
0.1	(A) 17	(B) 33	(C)	28	(D) 49
30.	5, 9, 10, 28,, 65		, ~.		(D) 15
	(A) 13	(B) 21	(C)	18	(D) 19
29.	3, 8, 12, 15, 17,	-			
	(A) 15	(=) ==	(C)	18	(D) 16
28.	3, 4, 6, 9, 13,				
	(A) 25	(B) 21	(C)	28	(D) 27
27.	3, 8, 13, 18, 23,	-			
	(A) 17	(B) 18	(C)	19	(D) 16
26.	3, 2, 5, 7, 12,				
	(A) 20	(B) 24	(C)	29	(D) 31
25.	3, 4, 7, 11, 18,				
	(A) 132	(B) 154	(C)	168	(D) 206
24.	40, 78, 116,	• •	. /		` ,
	(A) 46	(B) 56	(C)	54	(D) 60
23.	38, 42, 46, 50,	· /	(-)		, , = 0
	(A) 45	(B) 68	(C)	54	(D) 20
22.	40, 42, 46,				

41. 4, 6, 16, 62, 308, ?
(A) 990 (B) 172 (C) 698 (D) 1846

(A) 180

42. 3, 15, 35, ?, 99, 143 (A) 48 (B) 63 (C) 80 (D) 95 43. 2, 10, 30, 68, ___, 222 (A) 120 (B) 130 (C) 134 (D) 150 44. 2, 17, 52, ____, 206 (A) 73 (B) 85 (C) 113 (D) 184 3, 6, 24, 30, 63, 72, ?, ?, 195, 210 45. (A) 117, 123 (B) 120, 132 (C) 123, 135 (D) 135, 144 46. 5, 10, 17, 26, 37, 50, ? (A) 70 (B) 66 (C) 65 (D) 64 6, 25, 62, 123, (?), 341 47. (A) 216 (C) 215 (D) 218 (B) 214 5, 3, 10, 8, 13, 15, (?), 24 48. (A) 26 (B) 27 (C) 29 (D) 36 49. 2, 6, 12, 20, 30, (?) (A) 40 (B) 42 (C) 44 (D) 46 50, 55, 61, 68, ___ 50. (A) 81 (B) 80 (C) 75 (D) 76 144, 121, 100, 81, __ 51. (A) 80 (B) 72 (C) 64 (D) 60 52. 2, 10, 26, ___, 122 (A) 80 (B) 81 (C) 82 (D) 83 53. 0, 6, 24, 252 (A) 620 (B) 1040 (C) 3120 (D) 5430 6, 24, 60, 120, ? 54.

(B) 210

(C) 240

(D) 360

2

Letter Series

Letter Series

In letter series the letters follow a definite order. The given series of letters can be in natural order of in reverse order of combination of both. The letters may be skipped or repeated or consecutive. The given series may be single or may even comprise of two different series merged at alternate positions. While attempting questions on letter series one should note the pattern of alphabet series.

Alphabets in natural series

Α	В	С	D	Ε	F	G	Н	Ι	J	K	Г	M	N	О	P	Q	R	S	Τ	U	V	W	X	Y	Z
\downarrow				\downarrow					\downarrow					\downarrow					\downarrow					\downarrow	
1st				5 th					10 th	ı				15th	ı				20	th			:	25th	i
41.1.1.1.4.1.1																									

Alphabets in reverse series are:

Z	Y	X	W	V	IJ	T	S	R	Q	P	О	N	M	L	K	J	I	Н	G	F	Ε	D	U	В	Α
\downarrow				\downarrow					\downarrow					\downarrow					\downarrow					\downarrow	
1st	:			5th]	l Oth				1	15th					20t	:h				25th	l

Note: On reaching Z, the series restarts from A and on reaching A, it restarts from Z.

Examples

1. Which of the given options will complete the given series?

BDFHJ?

(A) L

(B) O

(C) M

(D)K

Solution

(A) The series follows the pattern of moving the letters two steps forward.



2. Which combination of letters complete the given series :

NRJ, PNP, RJV, ?

(A) BFT

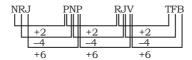
(B) TFB

(C) TBF

(D) BTF

Solution

(B) The letters ion one group correspond to the letters in the next group in the manner two steps forward, four steps backward, six steps forward (+2, -4, +6) respectively, i.e.



(A) U

(A) S

(A) B

DRGO?

TWVYX?

19.

20.

ASSIGNMENT-1

Direction (1 to 20) Select an appropriate term that completes the series

1. C, L, E, M G, N, I, ? (A) J (C) P (B) K (D) O 2. Z, X, U, Q, L, ? (A) K (B) i (C) F (D) G 3. H, J, M, O, R, T, ? (A) W (C) U (D) V (B) S 4. B, D, G, K, M, P, ? (C) T (D) S (A) Q (B) R 5. G, J, M, P, S, V, ? (A) W (B) Z (C) X (D) Y F, L, , Q, U, X, ? 6. (A) B (B) Z (C) Y (D) A 7. Z, T, O, K, H, ? (B) F (A) G (C) E (D) C 8. B, B, C, D, D, F, E, _ (A) E (C) D (D) G (B) H 9. X, V, T, R, P, ____ (A) O (C) N (D) T (B) M BDF, GIK, ____, QSU 10. (A) LNP (B) MLN (C) JKL (D) KLM BFJN? 11. (A) R (B) H (C) P (D) Z WKTN? 12. (C) R (A) S (B) Q (D) O 13. FGILP? (A) V (B) U (C) T (D) W 14. RMWH? (A) L (B) T (C) X (D) B LJHF? 15. (B) D (C) E (D) V (A) A 16. UWVXW? (A) V (B) T (C) Y (D) U 17. BCFGJ? (A) M (B) L (C) I (D) K 18. YAVXS?

(B) W

(B) J

(B) Y

(C) V

(C) L

(C) X

(D) T

(D) T

(D) A

ASSIGNMENT-2

Direction (21 to 40): Which letter number will not fit in the series.

21.	7V, 13U, 19R, 23P, 26M										
	(A) 19r	(B) 13U	(C)	23P	(D) 7V						
22.	F24, J15, M11, R6, X	X 2									
	(A) P24	(B) R6	(C)	J15	(D) M11						
23.	S21H, W16E, Z12C,	A81, C7X									
	(A) W16E	(B) A81	(C)	Z12C	(D) C7X						
24.	2T, 4R, 12V, 18R, 72	X									
	(A) 4R	(B) 12V	(C)	2T	(D) 18R						
25.	N14, L13, K9, J6, I4										
	(A) J4	(B) L13	(C)	J6	(D) N14						
26.	N22D, R16C, T13Z, V	W10X, Z8V									
	(A) Z12V	(B) T13Z	(C)	R16C	(D) N12D						
27.	2O, 6Q, 2P, 8U, 6W										
	(A) 8U	(B) 2O	(C)	2P	(D) 6Q						
28.	X2R, V6P, T12N, S3C	M, P72J									
	(A) V6P	(B) T12S	(C)	S30M	(D) X2R						
29.	E13, B19, Z23, W25,	V20									
	(A) B19	(B) W25	(C)	E13	(D) V20						
30.	A1, B5, C9, D16										
	(A) B5	(B) C9	(C)	D16	(D) A1						
31.	1T, 4R, 6K, 24H, 120	F									
	(A) 6K	(B) 24H	(C)	120F	(D) 4R						
32.	25F, 16N, 49O, 64R,	49H									
	(A) 49H	(B) 64R	(C)	16N	(D) 25F						
33.	U9, Y12, X13, Z16, C	218, E19									
	(A) E19	(B) U9	(C)	X13	(D) Y12						
34.	12H, 8K, 10M, 4S, 8H	₹									
	(A) 10M	(B) 8R	(C)	4S	(D) 8K						
35.	J18, F11, E9, B6, Z4										
	(A) B6	(B) F11	(C)	Z4	(D) F9						
36.	5, R, 8, P, 10, N, 14,	L, 17, J									
	(A) R	(B) 8	(C)	10	(D) 17						
37.	2, C, 4, H, 8, N, 16, F	R, 32, W									
	(A) R	(B) H	(C)	N	(D) 4						
38.	R9, T10, V9, X12										
	(A) X12	(B) V9	(C)	T10	(D) R9						
39.	64, S, 32, U, 16,8, Y,	4, B									
	(A) 8	(B) X	(C)	В	(D) Y						
40.	4, S, 7, O, 11, K, 25,	G, 49, C									
	(A) 7	(B) O	(C)	G	(D) 11						

PREVIOUS YEAR NTSE QUESTIONS

41.	b, c, e, g, k, ?, q, s			
	(A) 1	(B) m	(C) n	(D) o
42.	BYA, CXB, ?, EVD			
	(A) DVE	(B) DCW	(C) DXB	(D) DWC
43.	ZA13, YB15, XC17, ?			
	(A) WC19	(B) WD18	(C) WD20	(D) WD19
44.	BNQ, CMR, DLS, ?			
	(A) FOT	(B) EGT	(C) FGT	(D) EKT
45.	BEG, DGI, FIK, HKM	, (?)		
	(A) JMO	(B) KMO	(C) JML	(D) JNP
46.	KEM, IDL, GCK, ?, C.	AI		
	(A) ECJ	(B) EBK	(C) FBJ	(D) EBJ
47.	JCME, LDOG, NEQT	, (?)		
	(A) PFSJ	(B) PESI	(C) PISK	(D) PFSK
48.	A4X, D9U,G16R,			
	(A) K25P	(B) J25P	(C) J25O	(D) J25C
49.	APZLT, CQYNR, ERX	PP, GSWRN, ITVTI	Ĺ,	
	(A) KUUVJ	(B) KVUUJ	(C) JUVUR	(D) KVUVJ
50.	BD, HJ, NP, ?, ZB			
	(A) RS	(B) TV	(C) YC	(D) TV

3

Letter Repeating Series

Letter Repeating Series

In this type of series small letters of the alphabet are used to make a set of letters which are repeated. The candidate has to find the set of letters which will fit the blanks left in the given series in such a manner that one section of the series is further repeated in the same manner

Example

1. Which of the following groups of letters will complete the given series? ba _ b _aab _ a _ b

- (A) baab
- (B) abba
- (C) abaa
- (D) babb

Solution

(B) The series is baab, baab, baab. Here the section 'baab' is repeated in the series.

The candidate has to look for clues to solve such series pattern. 'aab' in the series indicates that 'b' in this series is preceded by two 'a' so, the first blank and the last blank will be filled by 'a'. Now the first set is formed, i.e., 'baab' in the beginning. This set is repeated, so the second and third blanks will have 'b' filling them. Now, solve the exercise given below to know the different ways in which these series are formed.

ASSIGNMENT-1

1.	c_bbbabbbb_abb	b_									
	(A) abccb	(B) bacbb	(C) aabcb	(D) abacb							
2.	ac_cab_baca_aba_a	cac									
	(A) bcbb	(B) aacb	(C) babb	(D) acbc							
3.	ababa_ab										
	(A) abbab	(B) bbaba	(C) baabb	(D) abbba							
4.	babbba_a										
	(A) bbaba	(B) babbb	(C) baaab	(D) ababb							
5.	k_mk_lmkkl_kk_mk	S									
	(A) lklm	(B) lkmk	(C) lkmm	(D) lkml							
6.	abc_d_bc_d_b_dd										
	(A) decdb	(B) dadac	(C) cdabe	(D) bacde							
7.	ba_cb_b_bab_										
	(A) acbb	(B) bcaa	(C) cabb	(D) bacc							
8.	ab_aa_caab_aab_a										
	(A) bcbc	(B) bbca	(C) cbcc	(D) caba							

9.	_bbcaa_bcaa_bc_a_bc	ca				
	(A) bacab	(B)	abbab	(C)	abcba	(D) bcaab
10.	a_bccb_ca_cca_baab_	c				
	(A) accab	(B)	abcaa	(C)	bacaa	(D) ababc
11.	_cbc_a_bcaac_ca					
	(A) aaba	(B)	caab	(C)	bcab	(D) aacb
12.	ab_baba_					
	(A) abba	(B)	baab	(C)	baba	(D) abab
13.	yx_yx_yxz_xzy_zyxz					
	(A) zzyx	(B)	xxzy	(C)	yyzx	(D) yzxz
14.	xxxy_y_xxy_yxx_					
	(A) xyxy	(B)	yxyx	(C)	yyxx	(D) xxyy
15.	aaab_aaaaba_a_abaa					
	(A) baa	(B)	aaa	(C)	aba	(D) bba
16.	nl_n_mn_m_lm					
	(A) mlnn	(B)	lnnm	(C)	mlnl	(D) mlln
17.	lm_nnll_mn_llmm_nl					
	(A) lmmn	(B)	lnnm	(C)	mmnn	(D) mnll
18.	aba_caab_cca_bac_a					
	(A) cbac	(B)	caac	(C)	bccb	(D) abcb
19.	_cd_bc_ab_dabc_a					
	(A) badcd	(B)	ccddb	(C)	abccd	(D) ccbad
20.	_ba_baa_ab_a					
	(A) babb	(B)	baab	(C)	abbb	(D) aaba
			ASSIGNI	/IEN	T-2	
21.	ab_da_cd_bc_					
	(A) abdc	(B)	cbad	(C)	bcad	(D) acbd
22.	_yyx_xxyx_yxyx_y	()		(-)		() =======
	(A) yxxy	(B)	xyxy	(C)	yxyx	(D) xyyx
23.	a_ba_bb_ab_a	()	3 3	()	3 3	() 33
	(A) abab	(B)	baab	(C)	baba	(D) abbb
24.	x_yyx_y_ xyy	` ,		()		()
	(A) xyyy	(B)	ууух	(C)	xyxy	(D) xxyx
25.	_bcbc_caba	` '		` ,		, , ,
	(A) aabc	(B)	abac	(C)	caab	(D) baba
26.	b_ac_cc_cb_ab_ac					
	(A) cbaba	(B)	bbaac	(C)	abbbc	(D) aabba
27.	c_ac_aa_aa_bc_bcc					
	(A) cabba	(B)	ccbbb	(C)	bbbbb	(D) cbacb
28.	b_b_bbbbb_b					
	(A) bbbbba	(B)	bbaaab	(C)	ababab	(D) aabaab

29.	abca_bcaab_aa_caa_c				
	(A) bbac	(B) bbaa	(C)	acbb	(D) acac
30.	ccb_c_bbc_b_cc cc	bb			
	(A) bccbbb	(B) bcccbb	(C)	aaaaba	(D) bbbbbb
31.	a_bbc_aab_cca_bbcc				
	(A) bacb	(B) acba	(C)	abba	(D) caba
32.	ab_aa_bbb_aaa_bbba				
	(A) abba	(B) baab	(C)	aaab	(D) abab
33.	bc_b_c_b_ccb				
	(A) cbcb	(B) bbcb	(C)	cbbc	(D) bcbc
34.	abb_baa_a_bab_aba				
	(A) abba	(B) abab	(C)	ccac	(D) aabb
35.	abca_bcaab_ca_bbc_a	a			
	(A) ccaa	(B) bbaa	(C)	abac	(D) abba
36.	aaa_bb_aab_baaa_bb				
	(A) abab	(B) bbaa	(C)	babb	(D) baab
37.	cc_ccbc_accbcc_c_b	(D) 1	(C)		(D) 1
20	(A) acac	(B) abac	(C)	abab	(D) aabc
38.	_bcdbc_dcabd_bcdbc		(0)	11111	(D) 11111
20	(A) aaaaa	(B) cccc	(C)	bbbbb	(D) ddddd
39.	a_abbb_ccccd_ddccc_		(C)	ahdah	(D) shood
40.	(A) abcda a_cdaab_cc_daa_bbb	(B) abdbc	(C)	abdcb	(D) abcad
40.	(A) bdbda	_ccddd (B) bddca	(C)	dbbca	(D) bbdac
	(ri) babaa	(D) baaca	(0)	abbea	(D) bbdde
	PRE	VIOUS YEAR I	ITS	e questions	3
41.	gfe_ig_eii_fei_gf_ii				
		(B) figie	(C)	ifgie	(D) ifige
42.	abb _ bbaa _	(-)8	(-)	8	(-)8
	(A) abaab	(B) abbab	(C)	baaab	(D) babba
43.	J_V_JW_U		()		
	(A) WUVUVUJ	_	(B)	VWUVWUJ	
	(C) VUWUVJW		(D)	JVUVJVJ	
44.	J_F_JM_SJ_				
	(A) SFMSFS	(B) F S M S F M	(C)	MFSSFM	(D) FMSMSF
45.	K _ E _ K X _ P _ X	ζ			
	(A) $P E X E P K$	(B) P K E X E K	(C)	KE PEXK	(D) EPXPEK
46.	_FS_G_S_GF_1	L			
	(A) GLFLS	(B) LGFLS	(C)	SGLFL	(D) FLGSF
47.	_acca_ccca_accc_aaa				
	(A) caac	(B) ccaa	(C)	caaa	(D) None of these

- 48. ab _ a _ b _ a _ bba
 - (A) aaab
- (B) abbab
- (C) baaab
- (D) babba

- 49. ab _ aabb _ _ bb _
 - (A) abbb
- (B) abab
- (C) baba
- (D) baaa

- 50. babc _ abbccc _ cdbbc _ dddc _ eccddee
 - (A) adcd
- (B) abcd
- (C) bcdc
- (D) babd

4

Number Analogy

Number Analogy

In number analogy also, the relationship between the given numbers is detected and then applied to the second part to find the missing numbers. This relationship between the numbers can be based on any of the following pattern

- (i) numbers can be odd / even/ prime numbers
- (ii) numbers can be multiples of one number;
- (iii) numbers can be squares / cubes of different numbers
- (iv) some numbers can be added to / subtracted from/ multiplied to / divided into the first number to get the second number;
- (v) the second number can be the sum / product/ difference of the digits of first number;
- (vi) combinations of any mathematical calculations given above can apply to the relationship between the two given numbers.

Examples

1. Which number will come in the place of the question mark?

25:81::36:?

(A) 121

(B) 93

(C) 65

(D) 103

Solution

(A) All the numbers are squares of different numbers.

2. Which number will come in the place of the question mark?

36:18::72:?

(A) 164

(B) 134

(C) 94

(D) 14

Solution

(D) The second number is the product of digits of the first number.

36 : 18 :: 72 : 14 -----7×2-----

ASSIGNMENT-1

- 1. 5:24::8:?
 - (A) 65
- (B) 63
- (C) 62
- (D) 64

- 2. 12:6::36:?
 - (A) 12
- (B) 18
- (C) 20
- (D) 22

- 3. 6:9::7:?
 - (A) 4
- (B) 14
- (C) 10
- (D) 28

- 4. 7:28::2:?
 - (A) 8
- (B) 16
- (C) 24
- (D) 12

- 5. 65:30::44:?
 - (A) 79
- (B) 62
- (C) 28
- (D) 16

- 6. 99:76::24:?
 - (A) 1
- (B) 13
- (C) 9
- (D) 7

- 7. 2:15::3:?
 - (A) 81
- (B) 80
- (C) 26
- (D) 28

- 8. 663:884::221:?
 - (A) 332
- (B) 554
- (C) 773
- (D) 442

- 9. 16:0.16::?
 - (A) 2:0.02
- (B) 7:0.007
- (C) 1.3:0.13
- (D) 0.01: 0.001

- 10. $3:\frac{1}{3}::?$
 - (A) 6:12
- (B) $5:\frac{2}{15}$
- (C) 8: $\frac{1}{8}$
- (D) 9:27

- 11. 43:34::52:?
 - (A) 49
- (B) 25
- (C) 36
- (D) 64

- 12. 65:13::180:?
 - (A) 93
- (B) 36
- (C) 133
- (D) 102

- 13. 882:447::881:?
 - (A) 444
- (B) 445
- (C) 446
- (D) 447

- 14. 27:125::343:?
 - (A) 729
- (B) 64
- (C) 216
- (D) 512

- 15. 30:42::56:?
 - (A) 92
- (B) 21
- (C) 38
- (D) 72

- 16. 190:10:102:?
 - (A) 4
- (B) 7
- (C) 3
- (D) 5

- 17. 95:38::167:?
 - (A) 110
- (B) 120
- (C) 113
- (D) 134

- 18. 4:36::6:?
 - (A) 63
- (B) 54
- (C) 48
- (D) 30

- 19. 6:12::20:?
- . .
- (B) 30
- (D) 38

- (A) 50 20. 6:18::4:?
 - 6:18::4:? (A) 2
- (B) 6
- (C) 42

(C) 8

-14-

(D) 16

Mental Ability Test

ASSIGNMENT-2

			ASSIGNN	IEN	T-2	
21.	8:26::9:?					
	(A) 37	(B)	48	(C)	29	(D) 33
22.	3:30::6:?	(D)	60	(0)	4.0	(D) 70
0.2	(A) 20	(B)	60	(C)	40	(D) 70
23.	12:?::9:144 (A) 186	(D)	172	(C)	192	(D) 275
24.	7:?:::8:21	(D)	173	(C)	192	(D) 213
47.	(A) 13	(B)	15	(C)	19	(D) 21
25.	2:25::3:?	(2)	10	(0)		(2) = 1
	(A) 33	(B)	35	(C)	36	(D) 37
26.	4:?::6:74	()		()		,
	(A) 68	(B)	50	(C)	76	(D) 80
27.	?:35::3:15					
	(A) 5	(B)	6	(C)	7	(D) 8
28.	484 : ? : : 576 : 24					
20	(A) 32	(B)	42	(C)	62	(D) 22
29.	2:8::7:512	(D)	0	(0)	0	(D) (
30.	(A) 12 1331:122::1728:	(B)	9	(C)	8	(D) 6
30.	(A) 125		186	(C)	114	(D) 145
31.	125 : ? : : 512 : 66	(2)	100	(0)	111	(B) 110
	(A) 27	(B)	51	(C)	29	(D) 67
32.	784 : ? : : 289 : 17	, ,		. ,		, ,
	(A) 86	(B)	16	(C)	31	(D) 28
33.	441:28::256:?					
	(A) 26	(B)	24	(C)	23	(D) 32
34.	2197:?::1728:12	(D)	1.77	(0)	1 =	(D) 16
35.	(A) 13 625:?::676:31	(B)	17	(C)	15	(D) 16
33.	(A) 28	(B)	42	(C)	30	(D) 56
36.	?:324::24:576	(ப)	12	(0)	30	(D) 30
00.	(A) 14	(B)	16	(C)	18	(D) 20
37.	3375 : 15 : : 5832 : ?	()		()		,
	(A) 14	(B)	16	(C)	15	(D) 18
38.	24:?::21:9261					
	(A) 13824		12632	(C)	14423	(D) 15648
39.	13824 : 24 : : 4096 : 1		1.4	(6)	1.0	(D) 10
40	(A) 12	(B)	14	(C)	16	(D) 18
40.	324:?::225:5	(D)	0	(C)	1	(D) 6
	(A) 2	(B)	0	(C)	4	(D) 6

PREVIOUS YEAR NTSE QUESTIONS

41.	4096 : 8 : : 1296 : ?			
	(A) 7	(B) 9	(C) 11	(D) 6
42.	6:12::9:?			
	(A) 39	(B) 36	(C) 27	(D) 33
43.	5:18::?			
	(A) 30:96	(B) 21:66	(C) 19:61	(D) 11:35
44.	512:44::125:?			
	(A) 55	(B) 33	(C) 23	(D) 34

Mental Ability Test

(A) 33

45. 467:9::771:? (A) 9 (B) 8 (C) 6 (D) 15 $2\ 2\ 3\ 5\ 9: 3\ 5\ 9\ 17: :5\ 9\ 1\ 7\ 33:?$ 46. (D) 9 15 61 63 (A) 7 15 31 63 (B) 7 13 25 57 (C) 9 17 33 65 42:63::84:? 47. (A) 185 (C) 126 (D) 125 (B) 95 48. 731:902::655:? (A) 646 (B) 800 (C) 793 (D) 558 89:72::? 49. (A) 30:0(C) 66:12 (D) 48:36 (B) 14:5 162:9::310:? 50.

(C) 16

(D) 4

(B) 27

5

Letter Analogy

Letter Analogy

In this type of analogy the relationship between two given set of letters is established and then applied to the other set to obtain the required set of letters as the answer. These letters can be moved some steps backward or forward; reversed in whole or in sections or have some common identity between each other.

Examples

1. Which set of letters will come in the place of question mark?

JILK: KLIJ:: MNPQ:?

- (A) QNPM
- (B) MPQN
- (C) QPNM
- (D) PNMQ

Solution

(C) The letters are written in reverse order to get the related set of letters



2. Which set of letters will come in the place of question mark?

FLO: DOL:: RDP:?

- (A) PGM
- (B) MGP
- (C) GMP
- (D) MPG

Solutions

(A) The first and third letters are moved two and three steps backwards respectively and the second letter three steps forward.



ASSIGNMENT-1

- 1. UVW: SXU::LMN:?
 - (A) JOL
- (B) KNM
- (C) JKL
- (D) MLO

- 2. EIGHTY: GIEYTH::OUTPUT:?
 - (A) UTOPTU
- (B) UOTUPT
- (C) TUOUTP
- (D) TUOTUP

- 3. TSR: FED:: WVU:?
 - (A) CAB
- (B) MLK
- (C) PQS
- (D) GFH

4.	CJDL: FMGO:: IKJ	R:?			
	(A) OQPT	(B) RSTU	(C)	OQRT	(D) LNMU
5.	BOQD : ERTG : : AN	PC : ?			
	(A) DQSF	(B) FSHU	(C)	SHFU	(D) DSQF
6.	ABCD: HIJK:: LMN	O:?			
	(A) STUV	(B) STWV	(C)	XYZA	(D) PQRT
7.	BCDA: STUR:: KLN	MJ:?			
	(A) VWXU	(B) EFHG	(C)	SRTU	(D) QSRP
8.	AEI: LPT:: CGK:?				
	(A) OSV	(B) RUY	(C)	TXC	(D) FJN
9.	RUX:TRP::BEH:	?			
	(A) SQN	(B) QON	(C)	QOM	(D) QNL
10.	CART: ART:: FOUR	2:?			
	(A) RUN	(B) TWO	(C)	QUE	(D) OUR
11.	FIK : JGO : : DFR : ?				
	(A) BIO	(B) HDV	(C)	GCU	(D) FLP
12.	LJH: KKI:: CIA:?				
	(A) BJB	(B) DHB	(C)	BJC	(D) BBJ
13.	ACE: HIL:: MOQ: 3				
	(A) SVW		(C)	RTW	(D) WUS
14.	BCDE: WVUT:: QR				
	(A) EFHG		(C)	POML	(D) GEDC
15.	PNLJ: IGEC:: USQ				
	(A) HJLN	. ,	(C)	NLJH	(D) JHNL;
16.	DIMO : DMIO : : JUV				
	(A) JVRU		(C)	JVUR	(D) JUVR
17.	RRS:XMW::ITB:				
	(A) PNE	` '	(C)	RSW	(D) OOF
18.	ODRS : OSRD : : PAG				
	(A) PJGA	• •	(C)	PGJA	(D) PGAJ
19.	MEQI : JUOD : : ANI				
	(A) RUKE	• •	(C)	EUIO	(D) PTRE
20.	AKU : AJS : : CRD : 1			_ ~-	
	(A) BQE				(D) APC
		ASSIGN	MEN	IT-2	
21.	KL : PQ : : :				
	(A) AB : FG	(B) CD : EF	(C)	MN: OP	(D) QR : ST
22.	RS: VW:::		(0)	an Do	(D) AD DD
23.	(A) LN:ST ZA:CD:::		(C)	ZY: BC	(D) AB : EF
40.	(A) TU: WX		(C)	GH : IJ	(D) KC : MN
24.	CD : GH : : :				
	(A) PQ: TU	(B) UV : XY	(C)	YX : AB	(D) CD : FG

25.	IJ:NO:::				
	(A) MN: PQ	(B) QR : ST	(C)	UV: WX	(D) PQ: UV
26.	ST:XY:::	<u></u>			
	(A) ZA : EF	(B) AB : DE	(C)	FG: OP	(D) QR : NO
27.	DE: JK:::_				
	(A) HI : NO		(C)	PQ:ST	(D) UV : YZ
28.	LM:ST:::				
	(A) CD: HI		(C)	FG: QR	(D) CD : JK
29.	KL:ST:::				
	(A) DE: BC		(C)	BC: JK	(D) HI: LM
30.	AB: MN:::_				
	(A) OP : QR	` '	(C)	YZ : CD	(D) EF : QR
31.	XY : CD : : :				
	(A) DE: GH		(C)	XY : AB	(D) RT: UV
32.	GH: KL:::				
	(A) XY : CD		(C)	MN: AR	(D) YZ : CD
33.	BC: KL:::				
	(A) LM : QR		(C)	YZ : CD	(D) NO: WX
34.	MN : PQ : : :				
	(A) XY : AB		(C)	GH: NO	(D) ST: XY
35.	HI: MN:::				
	(A) QR: VW		(C)	IJ: MN	(D) QR : TU
36.	BC : HI : : :				
	(A) XY : AB		(C)	IJ: MN	(D) WX : CD
37.	VW : AB : : : _				
	(A) MN: RS	` ,	(C)	IP: MN	(D) GH : KL
38.	YZ : DE : : :				(=) == ==
	(A) MN : QR		(C)	HI: MN	(D) PQ : RS
39.	VW : YZ : : :		(C)		(D) 1111 DO
4.0	(A) MO: RS		(C)	HI: MN	(D) MN : PQ
40.	QR:UV:::		(0)		(D) DD 377
	(A) WX : YZ	(B) KL : OP	(C)	GH : IJ	(D) DE: XY

PREVIOUS YEAR NTSE QUESTIONS

Direction (41 to 50) Find out the alternative which will replace the question (?) mark.

REASON: SFBTPO:	: THINK : ?			
(A) SGHMJ	(B) UIJOL	(C)	UHNKI	(D) UJKPM
ACFJ: ZXUQ:: EGIN	7:?			
(A) VUSQ	(B) UTRP	(C)	VRPM	(D) VTRM
corden: zrogbq:: ?:	pxivro			
(A) mulmul	(B) sulsul	(C)	munmun	(D) srspql
DGJM: BEHK:: PSV	/Y:?			
(A) NQTW	(B) CGJN	(C)	BFKM	(D) BHLO
GCAE: 4:: JEBH:?	•			
(A) 6	(B) 7	(C)	5	(D) 8
MANTEL: NAMLET:	: VANITY : ?			
(A) NAVYIT	(B) NAVYTI	(C)	NAVIYI	(D) AVNTIY
	(A) SGHMJ ACFJ: ZXUQ:: EGIN (A) VUSQ corden: zrogbq::?: (A) mulmul DGJM: BEHK:: PSV (A) NQTW GCAE: 4:: JEBH:? (A) 6 MANTEL: NAMLET:	ACFJ: ZXUQ:: EGIN:? (A) VUSQ (B) UTRP corden: zrogbq::?: pxivro (A) mulmul (B) sulsul DGJM: BEHK:: PSVY:? (A) NQTW (B) CGJN GCAE: 4:: JEBH:? (A) 6 (B) 7 MANTEL: NAMLET:: VANITY:?	(A) SGHMJ (B) UIJOL (C) ACFJ: ZXUQ: EGIN:? (A) VUSQ (B) UTRP (C) corden: zrogbq: ?: pxivro (A) mulmul (B) sulsul (C) DGJM: BEHK: PSVY:? (A) NQTW (B) CGJN (C) GCAE: 4:: JEBH:? (A) 6 (B) 7 (C) MANTEL: NAMLET: VANITY:?	(A) SGHMJ (B) UIJOL (C) UHNKI ACFJ: ZXUQ:: EGIN:? (A) VUSQ (B) UTRP (C) VRPM corden: zrogbq::?: pxivro (A) mulmul (B) sulsul (C) munmun DGJM: BEHK:: PSVY:? (A) NQTW (B) CGJN (C) BFKM GCAE: 4:: JEBH:? (A) 6 (B) 7 (C) 5 MANTEL: NAMLET:: VANITY:?

47. APOC: ?:: ITSK: MVUN (A) DRQH (C) EQRG (D) DQRH (B) ERQF 48. AXD: EWB::?: JRG (C) HRK (D) FRJ (A) ETH (B) FSI 49. CD10Q: FG16C:: IJ220:? (D) LM28C (A) LM28A (B) LM28Z (C) LM28B 50. BYVE:GTQJ::CXUF:(A) HSQJ (B) IROL (C) HSPK (D) GTRI

6

Word Analogy

Word Analogy

In Analogy test the relationship between two given words is established and then applied to the other words. The type of relationship may vary, so while attempting such questions the first step is to identify the type of relationship, which can be any one of the following.

Exam	ıples								
Α.	Action	Action object Relationship							
1.	Shoot	is to Gun a	as Eat is	s to	_				
	(A) H	unger	(B)) Thirst		(C)	Dinner		(D) Fruit
Solut	ion								
	(D)	The relat	ionship	between	the	given	words is	that	'shoot' is t

- (D) The relationship between the given words is that 'shoot' is the action and 'Gun' is the specified object of action. Similarly 'eat is the action and fruit is the specified object.
- B. Association Relationship2. Glamour is to Stardom as Colour is to _____
- (A) Rainbow (B) Shades (C) Art (D) Paining
- Solution
 - (D) As glamour is associated with stardom so is colour with painting
- C. Antonym Relationship
- 3. INTROVERT: EXTROVERT
 - (A) ANGLE; TANGET (B) EXTREME; INTERIM
 - (C) AGAINST: FAVOUR (D) ACTION: LAW

Solution

1.

(C) The related words are opposite in meaning

ASSIGNMENT-1

- (A) Island (B) River (C) Desert (D) Waves

 2. ADULT: BABY:: FLOWER:?

 (A) Seed (B) Bud (C) Fruit (D) Butterfly

 3. WRITER: READER:: PRODUCER:?
- (A) Creator (B) Contractor (C) Creature (D) Consumer
- 4. ENTRANCE : EXIT : : LOYALTY : ?

WATER: SAND:: OCEAN:?

_	(A) Treachery	` ,	(C)	Fidelity	(D) Reward	
5.	MOTHER: MATERNA		(0)	D	(D) G	
_	(A) Eternal	• •	(C)	Paternal	(D) Sentimental	
6.	PEARL : NECKLACE		(0)	D . 1	(D) D (
7	• •	(B) Garden	(C)	Petal	(D) Bouquet	
7.	ALPHABET: WORD		(0)	Ot	(D) D:-t:	
0	(A) Sound	` ,	(C)	Sentence	(D) Dictionary	
8.	LIFE: DEATH: : HO		(C)	Dognain	(D) Sod	
0	(A) Cry GOOD: BAD:: VIRT	` ,	(C)	Despair	(D) Sad	
9.			(C)	Dognain	(D) Vice	
10.	(A) Blame BIRD: FLY:: SNAKI	• •	(C)	Despair	(D) Vice	
10.			(C)	Crawl	(D) Hala	
11.	(A) Timid CAT: MOUSE:: BIR		(C)	Clawl	(D) Hole	
11.	(A) Cage		(C)	Eagle	(D) Worm	
12.	STATE: EXILE::?	(Б) Пар	(C)	Eagic	(D) WOIII	
14.	(A) Police : Arrest		(B)	Judge : Convict	.	
	(C) Constitution : An	pendment	(D)			
13.	CAPRICIOUSNESS:		(D)	Church . Excon	imiumeate	
10.			(B)	Unreliable : Inh	niman	
	(A) Extemporaneous : Predictability(C) Tenacious : Practicality		(D)			
14.	LOATH : COERCION	-	(D)	Thornary . Will	ingicai	
11.	(A) Detest : Caressin		(B)	Irritate : Caress	sing	
	(C) Irate: Antagonisi	_	(D)	Reluctant : Persuasion		
15.	SCALES : FISH :: ?		(2)	Tioractarie . I or	Sudoioii	
10.	(A) Lady: Dress		(B)	Tree: Leaves		
	(C) Bird : Feather		(D)			
16.	TREE: SAPLING::?		(2)	Simi i mari		
	(A) Hut : Mansion		(B)	Giant : Dwarf		
	(C) Horse : Foal		(D)	Ant : Elephant		
17.	CHALK : BLACKBOA	RD :: ?	()	1		
	(A) Door : Handle		(B)	Table : Chair		
	(C) Ink : Paper		(D)	Type : Paint		
18.	PRIMEVAL : MEDIEV	/AL :: ?				
	(A) Dinosaur : Drago	n	(B)	Gorilla : Soldier	ſ	
	(C) Evolution : Revel	ation	(D)	Thorn : Rose		
19.	TRILOGY: NOVEL::	?				
	(A) Rice: Husk		(B)	Milk: Cream		
	(C) Fabric : Weaving		(D)	Serial : Episode	2	
20.	PEDANT : ERUDITIO	N :: ?				
	(A) Prude: Modesty		(B)	Blunt : Politicia	ın	
	(C) Diplomats : Tactl	ess	(D)	Enemy: Friend	ly	

ASSIGNMENT-2

- 21. Banlgadesh : Mango Tree(A) USA : Beech(C) India : Banana Tree
- 22. Rudimentary : Elementary
 - (A) Din : Silence
 - (C) Jeopardy: Safety
- 23. Linguistics : Language(A) Ecologist : Weather(C) Toxicologist : Distance
- 24. India: Rupee (A) UK: Ruble
 - (C) China: Yuan
- 25. Angle: Radian
 - (A) Temperature : Low (C) Time : Shot
- 26. Oriya : Odisha
 - (A) Tamil: Tamil Nadu
- (C) Punjabi : Amritsar 27. Lioness : Lion
 - (A) Buck : Rabbit(C) Bitch : Wolf
- 28. Electrically : Electrology (A) Future : Futurology
 - (C) Geology: Earth Curst
- 29. Maldives : Coconut Palm (A) China : Palma real
 - (C) Cherry Blossom : Japan
- 30. Queue: Line
 - (A) Surplus : Deficit
 - (C) Loath: Eager
- 31. Thailand : Bangkok
 - (A) Manila: Russia
 - (C) China: Shanghai
- 32. Lohri : Punjab
 - (A) Shigmo: Goa
 - (C) Rajasthan: Holi
- 33. Master: Mistress
 - (A) Drone: Douen
 - (C) Bachelor: Spinster
- 34. Thunder: Roar
 - (A) Croak: Frog
 - (C) Rustle: Leaves
- 35. Rat: Rodent
 - (A) Amphibian: Frog
 - (C) Pen: Wood
- 36. Cow: Elephant
 - (A) Bull: Cattle
 - (C) Dog: Cat

- (B) Bhutan : Maple Tree
- (D) Pakistan: Deodar
- (B) Limpid: Clear
- (D) Kindle: Extinguish
- (B) Zenith: Height
- (D) Seismology: Earthquakes
- (B) Argentia: Pound
- (D) UAE: Drachma
- (B) Power: Supply
- (D) Conductivity: Mho
- (B) Sindhi: Surat
- (D) Haryanvai: Rohtak
- (B) Fox: Dog
- (D) Mare: Pig
- (B) History: History
- (D) Hideology: Fear
- (B) Oak: Italy
- (D) Indonesia: Teak
- (B) Ruddy: Healthy
- (D) Retentive: Forgetful
- (B) Nicosia: Canada
- (D) Turkey: Ankara
- (B) Navratras: Bihar
- (D) Tami Nadu: Thaipusam
- (B) Nun: Monk
- (D) Goose: Gander
- (B) Beat: Drum
- (D) Rain: Jingles
- (B) Chair: Wood
- (D) Buttery: Insect
- (B) Rat: Mouse
- (D) Vixen: Fox

37.	Earth Crust : Geology						
	(A) Numerology : Num		(B)				
20	(C) Ideology : Persona	•	(D)	Neurology : Ner	vous System		
38.	Haphazard : Delibera		(D)	Indiaiona . Wie	_		
	(A) Importunate : Der(C) Disconsolate : Joy	•	(B) (D)		Scorpius Major : April SSTIONS ther (D) Knowledge Hunger		
39.	Assam : Bodo			Gregarious . He	ipiai		
03.	(A) Kannda : Canada		(B)	Jaipur : Jaipure	2		
	(C) Tamil : Tami Nadı		(D)				
40.	January : Orion						
	(A) Ursa minor : June		(B)	July : Scorpius			
	(C) August : Cygnus		(D)	Ursa Major : Ap	ril		
	PRE	VIOUS YEAR N	ITS	E OUESTIONS	ž		
41.	Guitar : Music : : Boo			2 402011011			
	(A) Pages	(B) Writer	(C)	Publisher	(D) Knowledge		
42.	Stimulant : Activity :	; ;	, ,		. ,		
	(A) Symptom : Diseas	se	(B)	Food : Hunger			
	(C) Fertilizer : Growth			Diagnosis : Trea	atment		
43.	Race : Fatigue : : :			J			
	(A) Fast : Hungry	(B) Fast : Energy	(C)	Fast : Food	(D) Fast : Fatigue		
44.	Penology : Punishmer	nt : : Seriology					
	(A) Law	(B) Earthquake	(C)	Line	(D) Medicine		
45.	Sink is to float. In the	e same way, destro	y is	to			
	(A) Enemy	(B) Alive	(C)	Peace	(D) Water		
46.	Author is to book, in	the same way,	is	related to			
	(A) Human, Society		(B)				
	(C) Naron, Building,		(D)	Fruits,			
47.	Drop: Ocean:: Cons	tellation: ?					
	(A) Shine	(B) Sky	(C)	Light	(D) Star		
48.	Bank: Rupees:: Tra	nsport : ?		_			
	(A) Goods	(B) Road	(C)	Traffic	(D) Speed		
49.	Market : Demand : : I	Farming : ?					
	(A) Farmer	(B) Monsoon	(C)	Foodgrain	(D) Supply		
50.	Heart : Blood : : Lung	;:?					
	(A) Oxygen	(B) Chest	(C)	Purification	(D) Air		
51.	Engineer : Machine :	: ?					
	(A) Doctor: Disease		(B)	Doctor : Medicin	ne		
	(C) Doctor : Hospital		(D)	Doctor : Body			

Odd One Out Number

Odd One Out - Numbers

In this type of classification, different numbers are given as option. These numbers have some commonness; except one which is the odd one. One has to identify the similarity and then strike the odd one out as answer option. The number can be odd/ even/consecutive, prime numbers, multiple of some number, single, square or cubes of different numbers, plus/minus of some other number or combinations of any mathematical calculation.

Example

1. Find the odd number from the given option	1.	Find the	odd	number	from	the	given	option
--	----	----------	-----	--------	------	-----	-------	--------

- (A) 62
- (B) 121
- (C) 36
- (D) 256

Solution

- 11 (=121), 6 (=36) and 16 (=256)
- 2. Find the odd number from the given options
 - (A) 27
- (B) 132
- (C) 93
- (D) 154

Solution

1.

5.

All other numbers are divisible by 3. (D)

ASSIGNMENT-1

Direction (1 to 20): Find the odd number from the given option

- (A) 3
- (B) 9
- (C) 5
- (D) 7

- 2. (A) 6450
- (B) 1776
- (C) 2392
- (D) 3815

- 3. (A) 24
- (B) 48
- (C) 42
- (D) 12

- 4. (A) 616
- (B) 252 (B) 12
- (C) 311
- (D) 707

6. (A) 3730

(A) 18

- (B) 6820
- (C) 30 (C) 5568
- (D) 20

- 7. (A) 2587
- (B) 7628
- (C) 8726
- (D) 4604 (D) 2867

- 8. (A) 63
- (B) 29
- (C) 27
- (D) 25

- 9. (A) 23
- (B) 37
- (C) 21
- (D) 31

33.

34.

35.

36.

37.

38.

(A) 11

(A) 11

(A) 249

(A) 468

(A) 1

(A) 10

(B) 9 10. (A) 18 (D) 7 (C) 21 (D) 9876543 (C) 98756 11. (A) 9875432 (B) 98765 12. (A) 602 (B) 431 (C) 530 (D) 813 13. (A) 4 (C) 7 (D) 10 (B) 6 14. (B) 2345 (C) 5467 (D) 5678 (A) 3456 15. (A) 10 (B) 11 (C) 15 (D) 16 16. (A) 336 (B) 213 (C) 436 (D) 819 17. (C) 224 (A)258(B) 326 (D) 339 18. (A) 28751 (B) 52638 (C) 85362 (D) 63852 19. (A) 73 (B) 43 (C) 63 (D) 83 20. (A) 64 (B) 27 (C) 125 (D) 9 **ASSIGNMENT-2** Direction (21 to 40): Find the odd number from the given option 21. (A) 63 (B) 49 (C) 21 (D) 81 22. (A) 2349 (B) 3264 (C) 4386 (D) 2649 23. (A) 7642 (B) 9325 (C) 5840 (D) 6318 24. (A) 565 (B) 315 (C) 275 (D) 435 25. (A) 28 (B) 65 (C) 117 (D) 91 26. (A) 625 (B) 225 (C) 122 (D) 256 27. (A) 375289 (B) 293463 (C) 223759 (D) 380546 28. (A) 1213211 (B) 1320816 (C) 1420117 (D) 1524016 29. (A) 5243 (B) 9251 (C) 4256 (D) 3257 30. (A) 102 (B) 143 (C) 51 (D) 136 31. (B) 37 (C) 9 (D) 17 (A) 23 32. (A) 144 (B) 196 (C) 78 (D) 36

(B) 17

(B) 8

(B) 546

(B) 853

(B) 64

(C) 8

(C) 61

(C) 6

(C) 852

(C) 734

(D) 21

(D) 9

(D) 647

(D) 918

- 39. (A) 1
- (B) 0.5
- (C) 2
- (D) 3

- 40. (A) 0
- (B) 5
- (C) 10
- (D) 25

PREVIOUS YEAR NTSE QUESTIONS

- 41. Find the odd number from the given option
 - (A) 512
- (B) 343
- (C) 125
- (D)729

- 42. Find the odd number from the given option
 - (A) $(10)^3$
- (B) $(100)^3 / 10$
- (C) $2^3 \times 5^3$
- (D) 2000÷2

- 43. Find the odd number from the given option
 - (A) 354
- (B) 282
- (C) 234
- (D) 186

- 44. Find the odd number from the given option
 - (A) 273,189
- (B) 255,195
- (C) 247,171
- (D) 221, 153
- 45. Which number is wrong 9, 19, 40, 83, 172, 345
 - (A) 172
- (B) 83
- (C) 40
- (D) 19

- 46. 13, 61, 97, 117
 - (A) 13
- (B) 61
- (C) 97
- (D) 117

- 47. 2–3, 3–7, 4–15, 5–24
 - (A) 2-3
- (B) 3-7
- (C) 4-15
- (D) 5-24

- 48. 3175, 7531, 1357, 7315
 - (A) 3175
- (B) 7531
- (C) 1357
- (D) 7315

- 49. Find the odd number from the given option
 - (A) 144,12
- (B) 121,11
- (C) 80,9
- (D) 100,10

- 50. Find the odd number from the given option
 - (A) 417
- (B) 255
- (C) 183
- (D) 241

8

Odd One Out Letters

Odd One Out - Letters

In this classification of letters, four groups of letters or a series of letters is given as option. One has to select the option as answer which does not share the commonness of the others.

Example

1.	Find the odd of	ne out in the iollowing	ng letters	
	(A) NOP	(B) RTU	(C) JKL	(D) EFG

Solution

- (B) In each group the letters are consecutive. In this option the first two letters jump one letter (S) in between
- 2. Find the odd one out in the following letters
 - (A) RUX (B) CFI (C) BDG (D) FIL

Solution

(C) In each group, the difference between the letters is same. In this option B and D jump two letters.

ASSIGNMENT-1

Direction (1 to 20): Find the odd letters sequence from the given option

1.	(A) ABD	(B) FGI	(C)	LMO	(D) STU
2.	(A) CDE	(B) JKL	(C)	PQS	(D) TUV
3.	(A) CRDT	(B) SUTV	(C)	EUFV	(D) GWHX
4.	(A) IJSO	(B) YXTU	(C)	RQOP	(D) FEGH
5.	(A) QePFoLA	(B) OrDFkV	(C)	TuMBin	(D) XZaWoB
6.	(A) SUCEED	(B) RESURRECT	(C)	SURRENDER	(D) CUNNING
7.	(A) MOTXYZ	(B) GKRVWX	(C)	PSBEFG	(D) ORNODF
8.	(A) ABPQ	(B) npRs	(C)	PQxY	(D) EFGH
9.	(A) CegI	(B) FhiK	(C)	PrtV	(D) KnpR
10.	(A) AEHJ	(B) EIJK	(C)	DHKM	(D) CGJL

11.	(A) APoQ	(B)	DXeM	(C)	SFiK	(D) OWjB
12.	(A) ACeG	(B)	BfGH	(C)	PZyE	(D) XTuW
13.	(A) KQ14	(B)	AY13	(C)	MR11	(D) GW15
14.	(A) ZX12	(B)	PM4	(C)	RJ14	(D) FD12
15.	(A) F34S	(B)	D22G	(C)	H42M	(D) B36P
16.	(A) MLI	(B)	FEB	(C)	SRN	(D) ZYV
17.	(A) PUS	(B)	HLJ	(C)	UYW	(D) BFD
18.	(A) DW	(B)	LO	(C)	JR	(D) HS
19.	(A) CEH	(B)	KMP	(C)	XZC	(D) NPT
20.	(A) GK	(B)	MQ	(C)	PU	(D) SW
			ASSIGNN	IEN	Т-2	
Direct	ion (21 to 40) : Find t	the c	odd letters sequ	ience	e from the given o	option
21.	(A) E29Y	(B)	H20L	(C)	N31Q	(D) B25W
22.	(A) JMP	(B)	RUX	(C)	UYB	(D) EHK
23.	(A) MrW	(B)	ChN	(C)	KpU	(D) BgL
24.	(A) CdaB	(B)	VwtU	(C)	LmjK	(D) RsqP
25.	(A) BdEg	(B)	PrSu	(C)	KmNp	(D) TwXz
26.	(A) HKI	(B)	UXV	(C)	CFD	(D) MQN
27.	(A) VXZ	(B)	GIL	(C)	SUX	(D) ACF
28.	(A) BDH	(B)	IKP	(C)	QSW	(D) TVZ
29.	(A) EBA	(B)	XUT	(C)	TQP	(D) JFE
30.	(A) HDA	(B)	AMI	(C)	JVR	(D) OKG
31.	(A) ABC	(B)	EFG	(C)	IJK	(D) WYX
32.	(A) BMS	(B)	HQP	(C)	KSX	(D) INT
33.	(A) LMQ	(B)	WXA	(C)	RSW	(D) XYC
34.	(A) GNV	(B)	KRZ	(C)	LDL	(D) AJM
35.	(A) QCq	(B)	GVg	(C)	XNx	(D) RIP
36.	(A) GAK	(B)	KER	(C)	RIV	(D) UGY
37.	(A) QRy	(B)	FZO	(C)	CPT	(D) BGX
38.	(A) PGH	(B)	PDR	(C)	RPT	(D) OAQ

(C) DCB

(C) MNK

(D) ZXW

(D) STP

(B) NML

(B) WXU

39.

40.

(A) WXY

(A) ABY

PREVIOUS YEAR NTSE QUESTIONS

41. Find the odd letters sequence from the given option					
	(A) ABYZ	(B) EFUV	(C)	IJQR	(D) MNOP
42.	Find the odd letters s	equence from the	given	option	
	(A) AE48	(B) GK36	(C)	RV24	(D) DI41
43.	Find the odd letters s	equence from the	given	option	
	(A) DINR	(B) GLQU	(C)	AEJN	(D) BGLP
44.	Find the odd letters s	equence from the	given	option	
	(A) ABNO	(B) CDPQ	(C)	EFRS	(D) GHUT
45.	MQT, ADG, HKN, RU	X			
	(A) MQT	(B) ADG	(C)	HKN	(D) RUX
46.	BDF, CHK, LDO, RFX	ζ			
	(A) BDF	(B) CHK	(C)	LDO	(D) RFX
47.	ZDUIP, $LJQEV$,	TAPEL, FSJO	N, C	JNGK	
	(A) LJQEV	(B) TAPEL	(C)	FSJON	(D) OJNGK
48.	DE, PQ, TU, MO, FG				
	(A) DE	(B) PQ	(C)	TU	(D) MO
49.	XW, FG, ML, PO, TS				
	(A) XW	(B) FG	(C)	ML	(D) PO
50.	BD, MP, NQ, HK, TW				
	(A) BD	(B) MP	(C)	NQ	(D) HK

9

Odd One Out Words

Odd One Out - Words

In this type of classification, four words are given out of which three are almost same in matter or meaning and only one word is different from the common four. One has to find out the word which is different from the rest.

Exan	ıple						
1.	In the fo	In the following question spot the odd one out.					
	(A) Fath	ier	(B) Mother	(C)	Friend	(D) Brother	
Solut	tion						
	(C) A	All other are b	lood reactions.				
2.	In the fo	In the following question spot the odd one out.					
	(A) Wate	er	(B) Jelly	(C)	Lemonade	(D) Coffee	
Solut	tion						
	(B) A	All other are li	quids.				
			ASSIGNI	MEN	T-1		
1	(A) 17:40		(D) Dind	(0)	Dadan	(D) Int	

1.	(A) Kite	(B) Bird	(C)	Radar	(D) Jet
2.	(A) Knee	(B) Palm	(C)	Ankle	(D) Elbow
3.	(A) Deluge	(B) Calamity	(C)	Catastrophe	(D) War
4.	(A) Cub	(B) Chicken	(C)	Pig	(D) Pup
5.	(A) Rabbit	(B) Crocodile	(C)	Earthworm	(D) Snail
6.	(A) Tree	(B) Leaf	(C)	Bush	(D) Herb
7.	(A) Doctor	(B) Teacher	(C)	Engineer	(D) Carpenter
8.	(A) Trot	(B) Equestrian	(C)	Derby	(D) Grunt
9.	(A) Ornate	(B) Pleasant	(C)	Decorate	(D) Beautify
10.	(A) Polo	(B) Chess	(C)	Ludo	(D) Squash
11.	(A) Tutor	(B) Principal	(C)	Pupil	(D) Professor
12.	(A) Pond	(B) River	(C)	Stream	(D) Brook
13.	(A) Quotation	(B) Duty	(C)	Tax	(D) Octroi

14.	(A) Root	(B) Tree	(C)	Branch	(D) Flower
15.	(A) Mumbai	(B) Chandigarh	(C)	Lucknow	(D) Hyderabad
16.	(A) Immortal	(B) Eminence	(C)	Perpetual	(D) Everlasting
17.	(A) Spinach	(B) Potato	(C)	Carrot	(D) Ginger
18.	(A) Van	(B) Aeroplane	(C)	Helicopter	(D) Transport
19.	(A) Fathom	(B) Marine	(C)	Lacuna	(D) Nautical
20.	(A) Attorney	(B) Lawyer	(C)	Judge	(D) Liquidator
		ASSIGNI	MEN	IT-2	
21.	(A) Sparrow	(B) Kingfisher	(C)	Kiwi	(D) Parrot
22.	(A) Arrow	(B) Dagger	(C)	Knife	(D) Sword
23.	(A) Mathematics	(B) Algebra	(C)	Trigonometry	(D) Geometry
24.	(A) Irish	(B) Iranian	(C)	Eastern	(D) Chinese
25.	(A) December	(B) June	(C)	January	(D) March
26.	(A) Boxer	(B) Wrestler	(C)	Player	(D) Cricketer
27.	(A) Mature	(B) Outdo	(C)	Ripen	(D) Bloom
28.	(A) Kanpur	(B) Haridwar	(C)	Varanasi	(D) Lucknow
29.	(A) Adore	(B) Like	(C)	Love	(D) Covet
30.	(A) Greedy	(B) Rapacious	(C)	Endear	(D) Avaricious
31.	(A) Won	(B) Yen	(C)	Uro	(D) Pound
32.	(A) Karntaka		(B)	Madhya Prades	h
	(C) Haryana		(D)	Jammu Kashm	ir
33.	(A) Court	(B) Track	(C)	Rink	(D) Judge
34.	(A) Manifest	(B) Evident	(C)	Exhibit	(D) Conceal
35.	(A) Param vir Chakra	ı	(B)	Shaurya Chakr	ra
	(C) Vijaya Chakra		(D)	Vir Chakra	
36.	(A) Racing	(B) Athletics	(C)	Hockey	(D) Table tennis
37.	(A) Bangkok	(B) Fiji	(C)	Ankara	(D) Harare
38.	(A) Spinster	(B) Wizard	(C)	Bull	(D) Nephew
39.	(A) Eyes	(B) Face	(C)	Ears	(D) Nose
40.	(A) Bangla	(B) Chinese	(C)	Bengali	(D) French

PREVIOUS YEAR NTSE QUESTIONS

2	11.	(A) Kilometer	(B) Centimeter	(C)	Litre	(D) Light year
4	12.	(A) Milk	(B) Chee	(C)	Butter	(D) Oil
4	13.	(A) Ahmedabad	(B) Ganghinagar	(C)	New York	(D) Mumbai
2	14.	(A) Pen	(B) Pencil	(C)	Chalk	(D) Blackboard
2	1 5.	(A) Haryana	(B) Gujarat	(C)	Rajasthan	(D) Shimla
4	16.	(A) Iron	(B) Copper	(C)	Brass	(D) Bronze
4	17.	(A) Pacific Ocean	(B) Asia	(C)	Europe	(D) Africa
4	18.	(A) Nepal	(B) Pakistan	(C)	Sri Lanka	(D) Australia
2	19.	(A) Gobi	(B) Thar	(C)	Arabian	(D) Indian
5	50.	(A) M.F. Hussain	(B) Leonardo da V	inci/	(C) Birju Mahar	aj (D) Picasso

10

Inserting Missing Character - Magic Square

Magic Square

In such types of questions a figure or a matrix is given in which some numbers are filled according to a rule. A place is left blank. The candidate has to find out a number from the given possible answers which may be filled in the blank space.

Example

1. Which number will replace the question mark?

27	8	5
8	8	4
1	64	5

(A) 4

(B) 7

(C) 5

(D) 6

(D) 12

Solution

(A) From the I column $9 \times 5 \div 5 = 9$

From the II column $17 \times 4 \div 4 = 17$

Similarly from III column $16 \times ? \div 8 = 8$

16?=64

? = 4

Hence the question mark will be replaced by 4.

2. Which number will replace the question mark?

7 2	2	3
	7	2

(A) 25

1	1
5	3

(B) 10

2	3
5.	5

(C) 15

Solution

(B) From First square : 2+3+2=7

From second square : 1+1+3 = 5

From third square : 2+3+5 = 10

Hence the question mark will be replaced by 10

Mental Ability Test

ASSIGNMENT-1

1.

2.

3	5	8
5	4	9
6	5	13

(A) 5

(11)		
1	2	9
3	1	16
5	2	25

(A) 5

1	2	9
3	1	16
5	2	25

(B) 4

(B) 7

(C) 2

(C) 8

(D) 3

(D) 6

3.

3	1	10
4	2	18
5	3	5

(A) 28

(B) 25

(C) 24

(D) 20

4.

2	3	?.
3	4	25
2	4	20

(A) 9

(B) 12

(C) 13

(D) 15

5.

15	5	3
14	7	?
21	3	7

(A) 4

(B) 2

(C) 3

(D) 5

6.

2	3	5
7	9	5
13	17	19

(A) 9

(B) 12

(C) 10

(D) 11

7.

10	12	14
15	16	18
20	21	5

(A) 20

(B) 22

(C) 23

(D) 24

8.

1	2	3
2	5	5
3	4	31

-35-

	(A) 13		(B) 12	(C) 10	(D) 16	
9.	2	6	12			
	20	5	42			
	56	72	90			
	(A) 24	4		(B) 28	(C) 27	(D) 30
10.	9	16	7			
	16	4	5			
	25	9	8			
	(A) 9			(B) 4	(C) 6	(D) 5
11.	27	1	4			
	8	27	5			
	1	8	5			
	(A) 4			(B) 1	(C) 2	(D) 3
12.	4	81	5			
	2	5	3			
	6	49	1			
	(A) 25	5		(B) 20	(C) 27	(D) 30
13.	3	4	5			
	12	5	5			
	6	8	10			
	(A) 1	1		(B) 12	(C) 9	(D) 13
14.	3	2	9			
	2	4	16			
	5	3	5			
	(A) 25	5		(B) 125	(C) 35	(D) 45
15.	10	15	14			
	16	36	5			
	6	9	7			
	(A) 36	5	ı	(B) 49	(C) 50	(D) 45
16.	2	3	55			
	2	1	33			

5

2

2

	(A) 44	1	
	(21) +-	T .	1
17.	4	9	6
	8	2	4
	20	5	5
	(A) 8		
18.	7	4	27
	3	4	2

(B) 40 (C) 54 (D) 66

(C) 11 (D) 12

5 8

(A) 3

(B) -2

(C) -1

(D) 2

19. 6 15 35 77 143 ? 323 399 667

(A) 407

(B) 231

(B) 10

(C) 251

(D) 221

20. 2 2 4 27 1 3 ? 16 4

(A) 3

(B) 4

(C) 2

(D) 5

ASSIGNMENT-2

21. 27 8 5 8 8 4 ? 1 64

(A) 4

(B) 7

(C) 5

(D) 6

22. 3 12 5 12 18 10 ? 19 12

(A) 14

(B) 15

(C) 16

(D) 17

23. ? 7 11 13 15 17 19 21 23

(A) 11

(B) 7

(C) 8

24.	7	105	15		
	16	144	9		
	17	5.	8		
	(A) 156				

	` '		
25.	8	3	5
	1	4	5
	27	3	5

8	3	5			
1	4	5			
27	3	5			
(A) 5					

(B) 8

(B) 146

(C) 7

(C) 136

(D) 6

(D) 132

26.	4	1	3		
	9	8	5		
	49	27	10		
(A) 8					

27. 7 9 4 8 17 ? 2 7 3 (B) 7

(C) 5

(D) 6

10 28.

(B) 9

(C) 5

(D) 6

2	5	2
5	17	2
(A) 3		

(B) 13

(B) 15

(C) 11

(D) 5

29.	1	3	10
	2	3	5
	3	3	36

(A) 13

(C) 19

(D) 17

(D) 25

30.	34	38	9
	54	50	13
	75	?	15

(A) 55 31. 2 3 7 2

(A) 10

(C) 35 2 3 ? 5

(C) 11

Mental Ability Test

32.	25	14		16	8		15	5	
	13	3		8	3		5	5	
	(A) 6		•	(B) 2		(C	3		(D) 4
33.	7	8		3	7		5	5	
	7	6		6	8		5	11	
	(A) 9			(B) 7		(C) 6		(D) 8
34.	1	2		1	2		1	1	
	36	3		16	1		5	1	
	(A) 20)	<u>I</u>	(B) 12	2	(C	9		(D) 16
35.	7	8		12	15		18	24	
	14	4		20	9		5	12	
	(A) 45	5	•	(B) 30)	(C	32		(D) 36
36.	2	1		7	1		3	3	
	49	4		100	2		5	3	
	(A)32		•	(B) 64	1	(C) 72		(D) 81
37.	7	3		4	8		7	8	
	25	5		36	6		5	9	
	(A) 28	3	•	(B) 30)	(C) 32		(D) 36
38.	8	11		16	17		21	23	
	16	3		30	3		5	9	
	(A) 35	5		(B) 40)	(C) 15		(D) 25
39.	1	1		2	1		1	0	
	27	1		125	2		5	1	
	(A) 27	7	•	(B) 8		(C) 6		(D) 10
40.	3	2		6	7		5	11	
	3	4		4	3		5	9	
	(A) 12	2	•	(B) 4		(C) 5		(D) 6
			PR	EVIOU	S YEA	AR NT	SE QU	ESTIC	NS
41.	41	7	35						

41.	41	7	35				
	24	16	5				
	36	5	45				
	(A) 52	2		(B) 56	(C)	96	(D) 64

42.	38	44	42
	23	55	28
	37	5	19

(A) 33

(B) 66

(C) 45

(D) 77

 43.
 ?
 13
 49

 9
 17
 69

 13
 11
 59

(A) 9

(B) 5

(C) 10

(D) 11

 44.
 4
 9
 20

 8
 5
 14

 10
 3
 ?

(A) 8

(B) 11

(C) 14

(D) 15

 45.
 37
 33
 43

 61
 24
 29

 57
 ?
 13

(A) 17

(B) 19

(C) 35

(D) 38

 46.
 78
 15
 69

 92
 12
 70

 66
 17
 ?

(A) 48

(B) 57

(C) 67

(D) 82

 47.
 1
 5
 7
 75

 8
 3
 4
 ?

 9
 7
 8
 194

(A) 20

(B)43

(C) 89

(D) 96

48. 33 44 76 23 54 66 43 ? 86 13 34 56

(A) 94

(B) 84

(C) 74

Mental Ability Test

49.	2	1	6
	3	7	5
	4	8	2
	24	56	48

(A) 4

(B) 3

(C) 2

(D) 5

50.

4	5	6
2	3	7
1	8	3
21	98	?

(A) 94

(B) 76

(C) 73

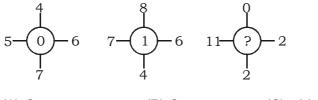
Inserting Missing Character - Magic Circle

Magic Circle

In such types of questions a figure or a circle is given in which some numbers are filled according to a rule. A place is left blank. The candidate has to find out a number from the given possible answers which may be filled in the blank space.

Example

Which number will replace the question mark? 1.



(A) 0

(B) 2

(C) 11

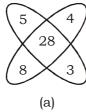
(D) 12

(D) 15

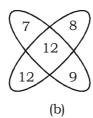
Solution

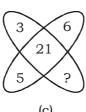
(C)
$$[(6+5)-(7+4)] = 0$$
$$(7+6)-(8+4) = 1$$
$$(11+2)-(2+0) = 11$$

2. Which number will replace the question mark?



(A) 6





(c)

(C) 10

Solution

(B) From figure (a)
$$(8\times5)$$
– (4×3) = 28
From figure (b) (12×7) – (8×9) = 12
Similarly from figure (c) (5×3) – $(6\times x)$ = 21
15–6x=21

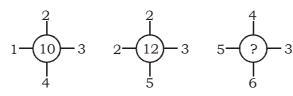
(B) -1

x = -1

Hence the question mark will be replaced by -1.

ASSIGNMENT-1

1.



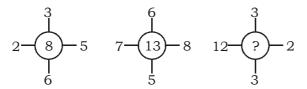
(A) 18

(B) 16

(C) 15

(D) 21

2.



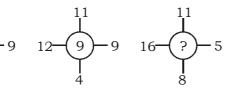
(A) 9

(B) 10

(C) 12

(D) 13

3.



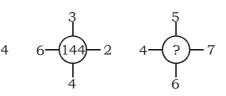
(A) 9

(B) 13

(C) 10

(D) 12

4.



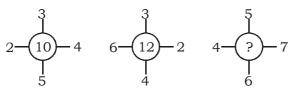
(A) 760

(B) 820

(C) 720

(D) 840

5.



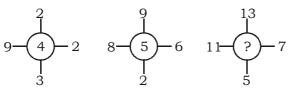
(A) 40

(B) 50

(C) 70

(D) 60

6.



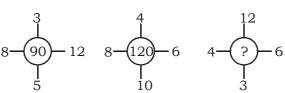
(A) 3

(B) 6

(C) 7

(D) 8

7.

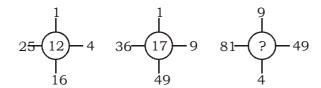


(A) 54

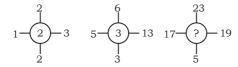
(B) 48

(C) 52



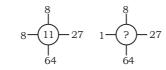


- (A) 18
- (B) 19
- (C) 20
- (D) 21



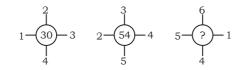
- (A) 4
- (B) 1
- (C) 5
- (D) 6

10. 8



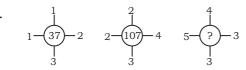
- (A) 7
- (B) 8
- (C) 10
- (D) 9

11.



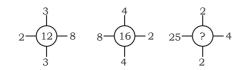
- (A) 72
- (B) 74
- (C) 75
- (D) 78

12.



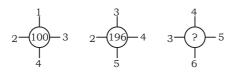
- (A) 243
- (B) 221
- (C) 227
- (D) 229

13.



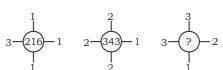
- (A) 30
- (B) 25
- (C) 20
- (D) 21

14.



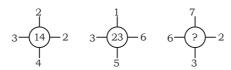
- (A) 225
- (B) 324
- (C) 400
- (D) 289

15.

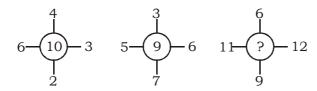


- (A) 729
- (B) 512
- (C) 125
- (D) 216

16.

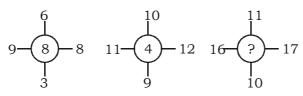


- (A) 42
- (B) 38
- (C) 32
- (D) 33



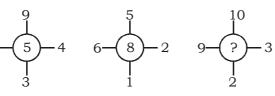
- (A) 78
- (B) 76
- (C) 82
- (D) 85

18.



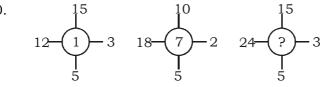
- (A) 16
- (B) 15
- (C) 12
- (D) 14

19.



- (A) 8
- (B) 7
- (C) 6
- (D) 9

20.



- (A) 8
- (B) 6
- (C) 5
- (D) 9

ASSIGNMENT-2

21.

- (A) 82
- (B) 74
- (C) 76
- (D) 78

22.

$$3 - 25 - 2$$
 $6 - 45 - 3$ $4 - ? - 2$

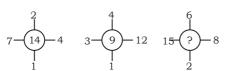
- (A) 36
- (B) 32
- (C) 28
- (D) 30

23.

$$7 - 20 - 3$$
 $6 - 12 - 2$ $4 - 2$ 1

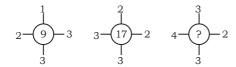
- (A) 9
- (B) 7
- (C) 8
- (D) 6

24.

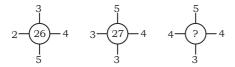


- (A) 16
- (B) 10
- (C) 12
- (D) 15



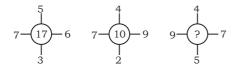


- (A) 38
- (B) 33
- (C) 53
- (D) 43



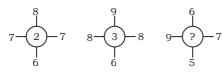
- (A) 31
- (B) 32
- (C) 33
- (D) 35

27.



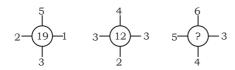
- (A) 6
- (B) 4
- (C) 2
- (D) 1

28.



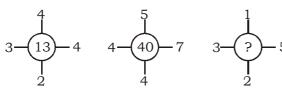
- (A) 3
- (B) 4
- (C) 5
- (D) 6

29.



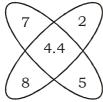
- (A) 39
- (B) 42
- (C) 36
- (D) 32

30.



- (A) 45
- (B) 55
- (C) 52
- (D) 50

31.





12

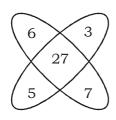
(A) 7



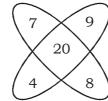
(C) 7.2



32.

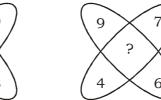


(A) 34



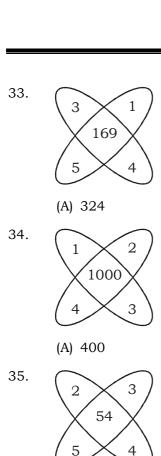
(B) 32

(B) 7.5



11

(C) 28



(A) 100

(A) 154

3

3

3

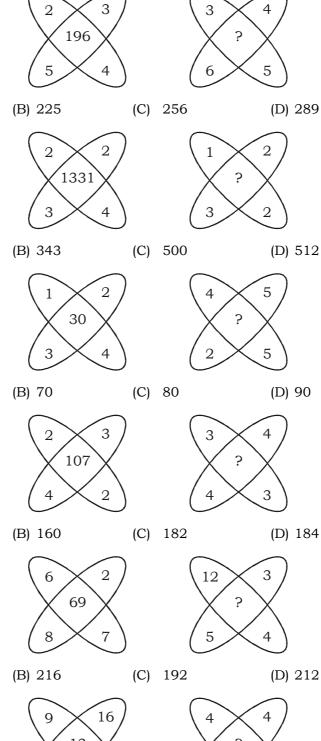
5

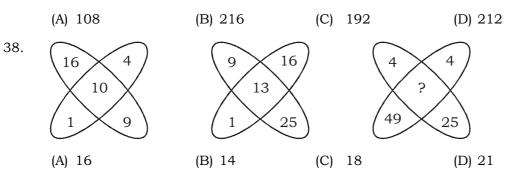
63

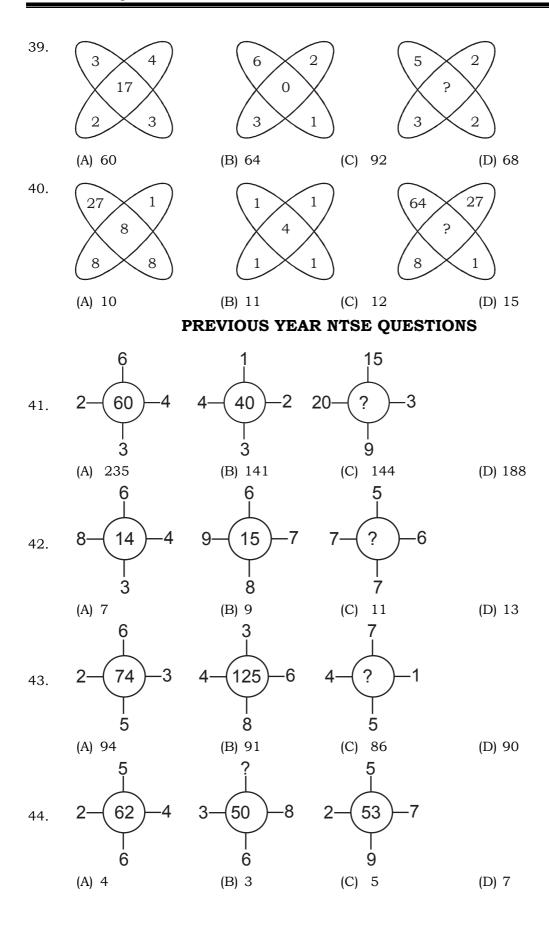
39

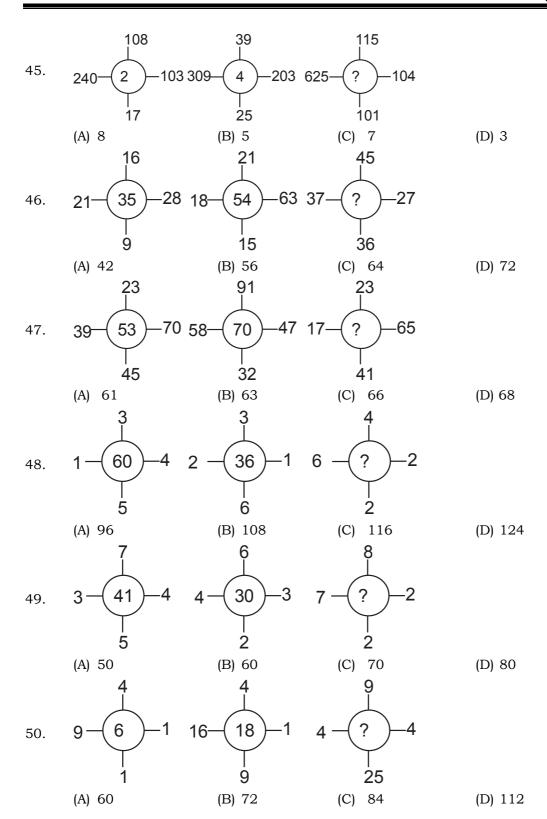
36.

37.









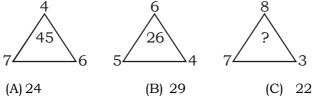
Inserting Missing Character - Inserting Number

Inserting Number

In such types of questions a figure or a triangle is given in which some numbers are filled according to a rule. A place is left blank. The candidate has to find out a number from the given possible answers which may be filled in the blank space.

Example

Which number will replace the question mark? 1.



(D) 32

Solution

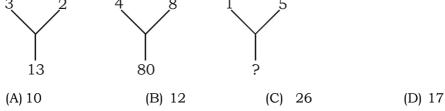
From First Triangle: $7 \times 6 + 3 = 45$ (B)

From second Triangle : $5\times4+6=26$

Similarly From third triangle : $7 \times 3 + 8 = 29$

Hence the question mark will be replaced by 29

2. Which number will replace the question mark?



Solution

From figure (a): $(3)^2 + (2)^2 = 13$ (C)

From figure (b) : $(4)^2 + (8)^2 = 80$

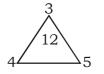
Similarly from figure (c): $? = (1)^2 + (5)^2 = 26$

Hence the number 26 will replace the question mark.

Mental Ability Test

ASSIGNMENT - 1

1.



(A) 17



(B) 20



(C) 19

(D) 21

2.



(A) 53



(B) 42



(C) 49

(D) 48

3.



(A) 72

(A) 10



(B) 63



(C) 60

(D) 5

(D) 16

4.





(B) 9



(C) 12

5.



(A) 27



(B) 30



(C) 36

(D) 64

6.



10

(B) 9



(C) 11

(D) 12

7.



(A) 16

(A) 16



(B) 10



(C) 9

(D) 15

8.



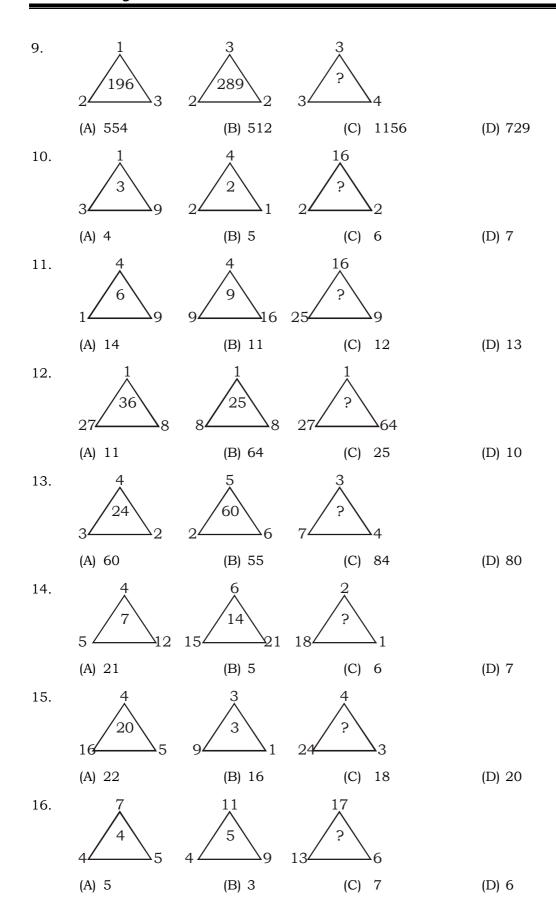
(A) 34



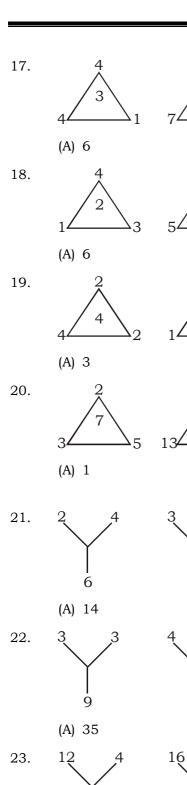
(B) 35



(C) 36



Mental Ability Test

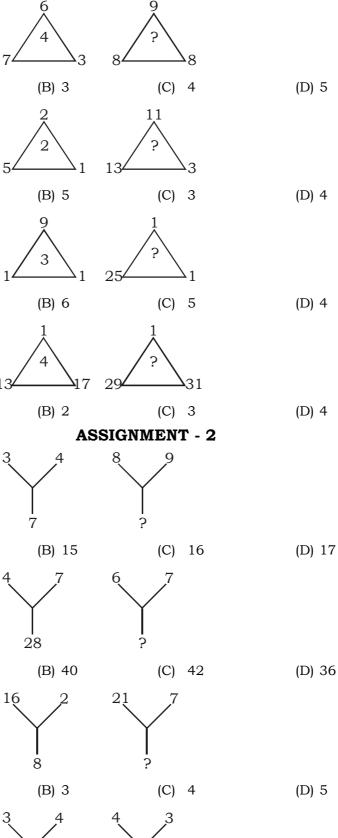


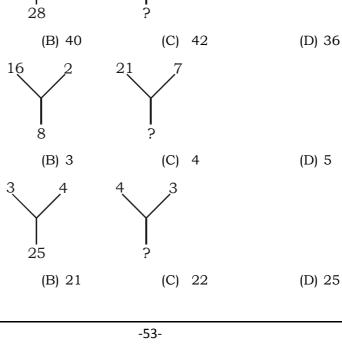
(A) 2

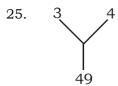
13

(A) 20

24.











- (A) 36
- (B) 20
- (C) 24
- (D) 49



7 5

(A) 9

16

- (B) 4
- (C) 5
- (D) 6

- 27. 1
- 3 64
- 2 1

- (A) 60
- (B) 125
- (C) 16
- (D) 27

28. 3





- (A) 12
- (B) 8
- (C) 6
- (D) 16

- 29. 6
- 6 2
- 10 2

- (A) 5
- (B) 25
- (C) 15
- (D) 20

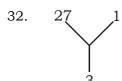
- 30. 16
- 25
- 36 16

- (A) 30
- (B) 24
- (C) 20
- (D) 18

- 31. 3 2
- 4 3
- 1 4

- (A) 17
- (B) 15
- (C) 14
- (D) 13

Mental Ability Test







(A) 9

(B) 8

(C) 6

(D) 5

33. 4 4



25 4

(A) 6

(B) 10

(C) 12

(D) 8

34. 3 4



5 2

(A) 65

(B) 25

(C) 35

(D) 125

35. 9 3





(A) 24

(B) 18

(C) 12

(D) 16

36. 8 10





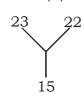
(A) 23

(B) 22

(C) 25

(D) 24

37. 12





(A) 25

(B) 24

(C) 23

(D) 22

38. 3 4





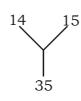
(A) 659

(B) 629

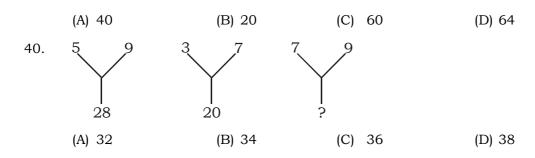
(C) 700

(D) 729

39. 27 8

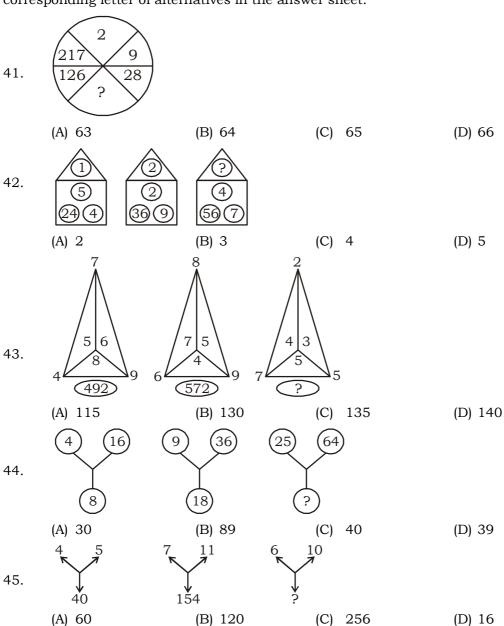


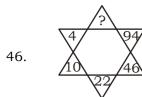




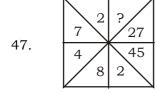
PREVIOUS YEAR NTSE QUESTIONS

Direction: In each questions numbers are placed in figures on the basis of some rules. One place in the figure is indicated by the interrogation sign (?). Find out the correct alternative to replace the question mark and indicate your answer by filling the circle of the corresponding letter of alternatives in the answer sheet.

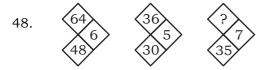




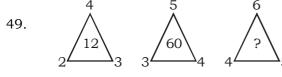
- (A) 194
- (B) 188
- (C) 190
- (D) 192



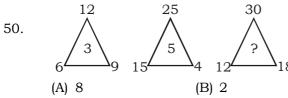
- (A) 51
- (B) 48
- (C) 52
- (D) 54



- (A) 36
- (B) 25
- (C) 49
- (D) 18



- (A) 72
- (B) 48
- (C) 15
- (D) 60



- (C) 6
- (D) 15

CHAPTER

13

Venn Diagram

Venn Diagram

Logical Venn diagrams represent logical relationships among different items. The items are represented by circles or any other geometrical figures. The size and shape of the diagrams have no relevance to the quantity or nature of the items they represent. The diagrams represent only logical relations among the items.

To start with, we shall analyze how the relation between two items can be represented using logical Venn diagrams.

There can be only three types of relationships between any two different items. The diagrammatic representation of such relationships is given below.

(A) The below diagram indicates that one item is completely contained in the other item, but not vice-versa.



Example: Fruits, mangoes

Fruits are represented by the outer circle, and mangoes are represented by the inner circle.

(B) This diagram indicates that neither item is completely contained in the other item, but the two items have some portion in common.



Example: Teachers, poets.

Some teachers may be poets, but all the teachers are not poets. Likewise, some but not all poets may be teachers. The common portion in both the circles represents the teachers circles represents the teachers who are also poets.

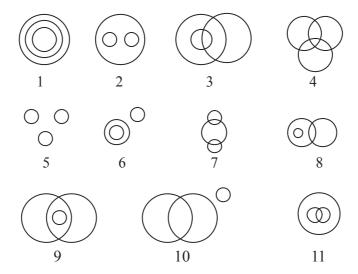
(C) This diagram indicates that nothing is common between the two items represented by the circles.



Example: Boy's girls.

Since the two items are entirely different from each other, the circles representing the items do not intersect.

The logical relation among three items is represented by any one of the following Venn diagrams.



Normally, in the problems on Venn diagrams, a set of Venn diagrams is given followed by a set of three items each. Students are required to choose the appropriate diagram which illustrates the relationship among the three given items. All eleven types of representations are discussed in this chapter, by taking two examples of each type.

(i) One item contains the other two items which are different from each other.

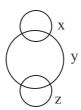


Example:

Parrot, dove, birds

It is clear that parrot (X) and dove (Y) are separate items and both are birds (Z).

(ii) Two independent items sharing some common feature with the third item.

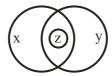


Example:

Boys. Girls, educated

It is obvious that only some boys are educated, some girls are educated, and no boy is a girl and vice-versa. X represents boys, Y represents educated and Z represents girls.

(iii) One item is partially contained in the other and the third item is fully contained in both.



Example:

Furniture, wooden materials, wooden chair

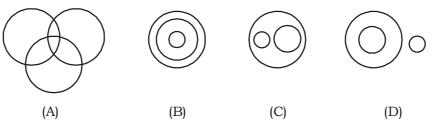
Furniture, wooden materials, and wooden chair are represented by the circles X, Y, and Z, respectively. Some of the furniture is made of wood. So, the circles X and Y intersect with each other. The wooden chair is a piece of furniture as well as a wooden material. So, the circle Z lies inside both the circles X and Y.

(iv) Independent items,



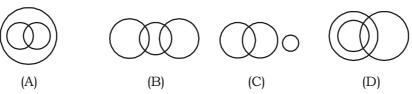
ASSIGNMENT-1

Directions (1-5): In each of the following questions three words (elements) related, in some way. Find the diagram (A, B, C, D) in which these elements fit correctly



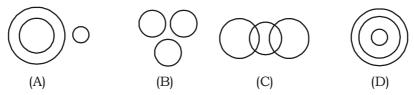
- 1. Mercury, Zinc, Metal
- 2. Teacher, Writer, Musician
- 3. Sailor, Ship, ocean
- 4. Elephant, Carnivorous, Tiger
- 5. Earth, Jupiter, Solar System

Directions (6-10): In each of the following questions three words (elements) related, in some way. Find the diagram (A, B, C, D) in which these elements fit correctly



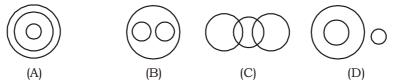
- 6. Women, Mother, Engineers
- 7. Subjects, Maths, Physics
- 8. Horse, Black, Water
- 9. Mother, Female, Politician
- 10. Men, Women, Fast runners

Directions (11-15): In each of the following questions three words (elements) related, in some way. Find the diagram (A, B, C, D) in which these elements fit correctly



- 11. Sweets, Ragulla, Apple
- 12. Page, Chapter, Book
- 13. Author, Lawyer, Singer
- 14. Bulb, Lamp, Light
- 15. Trouser, Cotton, Shirt

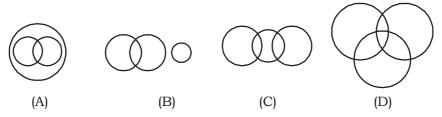
Directions (16-20): In each of the following questions three words (elements) related, in some way. Find the diagram (A, B, C, D) in which these elements fit correctly



- 16. Home, bedroom, bathroom
- 17. Bus, Car, Vehicle
- 18. Square, Rectangle, Polygon
- 19. Table, Chair, Furniture
- 20. Smokers, Non smokers, Lawyers

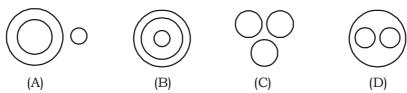
ASSIGNMENT-2

Directions (21-25): In each of the following questions three words (elements) related, in some way. Find the diagram (A, B, C, D) in which these elements fit correctly



- 21. Asian, Tall, Plastic
- 22. Tennis Fans, Cricket player, Student
- 23. Thief, Gangster, Murderers
- 24. Physics, Chemistry, Grass
- 25. Cloth, White, Feathers

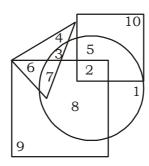
Directions (25-30): In each of the following questions three words (elements) related, in some way. Find the diagram (A, B, C, D) in which these elements fit correctly



- 26. Flowers, Marigold, Rose
- 27. India, China, Britain
- 28. Natural numbers, Even numbers, Odd numbers

- 29. Bangles, Cold drinks, Coca-cola
- 30. Family, Daughter, Son

Direction (31-35): In the following figure small square represents the persons who know English, triangles who know Marathi, big square who know Telugu and circle who know Hindi. Study the diagram given below and answer each other following questions



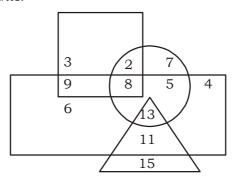
- 31. How many persons can speak English and Hindi both?
 - (A) 5
- (B) 8
- (C) 7
- (D) 1
- 32. How many persons can speak Marathi and Hindi both?
 - (A) 9

- (B) 4
- (C) 3
- (D) None of these
- 33. How many persons can speak only English?
 - (A) 9
- (B) 10
- (C) 7
- (D) 8
- 34. How many persons can speak English, Hindi and Telugu?
 - (A) 8

- (B) 2
- (C) 7
- (D) None of these
- 35. How many persons can speak all the language?
 - (A) 1

- (B) 8
- (C) 2
- (D) None of these

Direction (36-40): Observe the diagram carefully and then answer the following questions. Here rectangle represents males, Triangle represents PhD, Circle represents Urban and Square represents civil servants.



- 36. How many urban male civil servants are there?
 - (A) 8
- (B) 26
- (C) 11
- (D) 39

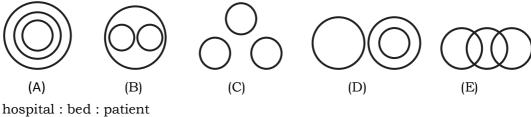
- 37. How many female PhD are there?
 - (A) 39
- (R) 11
- (C) 15
- (D) 26
- 38. How many urban male PhD civil servants are there?
 - (A) 10
- (B) 8
- (C) 13
- (D) None of these
- 39. How many urban female civil servants are there?
 - (A) 3

- (B) 2
- (C) 7
- (D) 15

- 40. How many urban male PhD are there?
 - (A) 15
- (B) 13
- (C) 39
- (D) None of these

COMPETITIVE CORNER

Direction (41 to 43): The questions represents certain relationship. The same relationship has been represented by the figures A, B, C, D and E but not in the same order. You have to choose the right choice



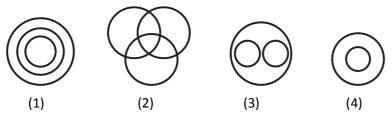
- 41.
- (B) A

- (C)C
- (D)D

- 42. suitcase: shirts: trousers
 - (A) B
- (B) E
- (C) D
- (D) C

- 43. light: dusk: dark
 - (A) C
- (B) A
- (C) E
- (D) D

Direction (44 to 46): The following diagrams show some relationship among 3 items. For each group of elements there corresponding one diagram is (a), (b), (c) or (d)



- 44. Square, rhombus, polygons
 - (B) 1
- (C) 3
- (NTSE 2016)

- 45. Vegetable, potato, apple

(A) 2

- (B) 2
- (C) 3
- (D) 4

(D) 4

46. The three items satisfy the diagrams are:



(NTSE 2016)

(NTSE 2016)

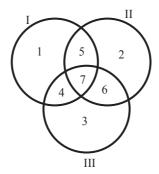
- (A) Engineers, Sportspersons, Judges
- (B) Carrot, Vegetable, Food
- (C) Flowers, Fruits, Liquid
- (D) Birds, Animals, Human beings

Direction (47 to 50): In the following diagram, the three intersecting circles, each representing certain section of people. Different regions are marked as 1 to 7. Read the statements in questions and choose number of the region which correctly represents the statement.

Circle I represents Indians

II represent Sportspersons

III represents Graduates



47.	Indian graduates who are not sportspersons							
	(A) 6	(B) 4	(C)	7	(D) 5			
48.	Graduate sportspers	on who are no Ind	ians					
	(A) 5	(B) 7	(C)	6	(D) 4			
49.	Indian graduate spor	rtspersons						
	(A) 7	(B) 4	(C)	5	(D) 6			
50.	The region 5 represents:							
	(A) Graduate sportspersons who are not Indians							
	(B) Indian sportspersons who are not graduates							
	(C) India Graduates who are not sports persons							
	(D) None of these							

CHAPTER

14

Blood Relation

Blood Relation

The questions which are asked under this chapter, depend upon Relation. Hence, it is necessary for the candidate to have a sound knowledge of the blood relation. To remember easily the relations may be divided into two sides – Paternal side and Maternal side.

Relations of Paternal side :			Relations of Maternal side :			
(A)	Father's father – Grandfather	(A)	Mother's father – Maternal Grandfather			
(B)	Father's mother – Grandmother	(B)	Mother's mother – Maternal Grandmother			
(C)	Father's brother – Uncle	(C)	Mother's brother – Maternal Uncle			
(D)	Father's sister – Aunt	(D)	Mother's sister – Maternal Aunt			
(E)	Children of uncle – Cousin	(E)	Children of maternal uncle – Cousin			
(F)	Wife of uncle – Aunt	(F)	Wife of maternal uncle – Maternal Aunt			
(G)	Children of aunt – Cousin					
(H)	Husband of aunt – Uncle					

Examples

1.	Sarita introduced a boy as the son of the daughter of the father of her uncle. The	ıe
	boy is Sarita's	

- (A) Brother
- (B) Son
- (C) Uncle
- (D) Son-in law

Solution

- (A) Usually we start from the end and keep on simplifying: Daughter of uncle's father means uncle's sister. Uncle's sister means mother and son of the mother means her brother. So the boy is Sarita's brother.
- 2. A+B means 'A' is the brother of B, A-B means A is the mother of B and A×B means A is the sister of B. Which of the following means A is the maternal uncle of B?
 - (A) A+C+B
- (B) A-B+C
- (C) A+C-B
- (D) $A+C\times B$

Solution

(C) Note that C has a relation between A and B. Option (A) A+C+B implies that A is the brother of C who is the brother of B means that A is the brother of B. So (A) does not give what is asked.

Option (B) also does not say what is required.

Option (C) A+C-B means A is the brother of C who is the mother of B means that A is the maternal uncle of B.

Hence the answer is (C)

ASSIGNMENT-1

Directions (1 to 6): Read the following information carefully and answer the questions given below

1.		ng to a girl in the f my mother's fat						brother is the only amesh?		
	(A) M	lother	(B)	Sister	(C)	Aunt	(D)	Grandmother		
2.		ng to a man in a andfather." How						ner is the only son of tograph?		
	(A) M	lother	(B)	Aunt	(C)	Sister	(D)	Daughter		
3.		Pointing to his son's portrait, a man said to a woman, "His mother is the only daughter of your mother." How was the woman related to the man?								
	(A) S	ister	(B)	Mother	(C)	Wife	(D)	Daughter		
4.		lucing a man, a v nan was related t			wife	is the only daug	ghter	of my father." How		
	(A) B	rother			(B)	Father in law				
	(C) M	laternal uncle			(D)	Husband				
5.	If Anil and S		f the	son of Sunil's	S SO1	n, what is the re	latio	nship between Anil		
	(A) C	ousin	(B)	Brother	(C)	Nephew	(D)	Grandson		
6.		ng to a person, a ather. How was t				•	the	only daughter of		
	(A) S	ister	(B)	Mother	(C)	Wife	(D)	Daughter		
daugh	iter in 1	•	gra	nd child. C is	D's	only uncle. A h	as t	given here. B is F's wo children F and C ther of C.		
7.	Who i	s the grandmoth	er of	D?						
	(A) B		(B)	A	(C)	С	(D)	D		
8.	Who i	s the mother-in-	law o	of B?						
	(A) C		(B)	D	(C)	E	(D)	F		
9.	If a gi	rl G is married in	ito tl	ne family, wh	at is	the relationship	bet	ween G and D?		
	(A) M	lother	(B)	Aunt	(C)	Mother-in-law	(D)	Grand mother		
given is not P. Z is	below is mother the bro	t: A family consist of Q. P and R ar other of P.	ts of	f six members married coup	s P, (Q, R, X, Y and Z.	Q is	swer the questions s the son of R but R X is the daughter of		
10.		s the brother in l	aw c	of R?						
	(A) P		(B)	Z	(C)	Y	(D)	X		
11.		s the father of Q								
	(A) R		(B)	P	(C)	Z	(D)	None of these		
12.		nany children do								
	(A) O	ne	(B)	Two	(C)	Three	(D)	Four		
13.	How r	nany female men	nber	s are there in	the	family?				
	(A) O	ne	(B)	Two	(C)	Three	(D)	Four		
14.	How i	s Q related to X?								
	(A) H	usband	(B)	Father	(C)	Brother	(D)	Uncle		

15.	Which is a pair of bro	ther?		
	(A) P and X	(B) P and Z	(C) Q and X	(D) R and Y
16.	Aakash said to Mohit daughter of my father			of the two brothers of the related to Aakash".
	(A) Father	(B) Uncle	(C) Brother	(D) Nephew
17.	Pointing to a person, father." How is Neha			the only daughter of your
	(A) Aunt	(B) Mother	(C) Daughter	(D) Wife
18.				her of Q and P×Q means P ne maternal uncle of R?
	(A) M-R+K	(B) M+K-R	(C) M+K×Q	(D) None of these
19.		eans A is the mo	ther of $B, A = B m$	of B. A×B means A is the leans A is the sister of B. of Q?
	(A) R+P÷Q	(B) P×R÷Q	(C) P+R÷Q	(D) $P+R\times Q$
20.	Amit said, "This girl i to the girl?	s the wife of the	grandson of my mo	ther." How is Amit related
	(A) Father		(B) Father in Law	
	(C) Grandfather		(D) Husband	
		ASSIGNI	MENT-2	
21.				s the younger of the two oy playing football related
	(A) Son	(B) Brother	(C) Cousin	(D) Brother in law
22.	Pointing a photograph of my mother." How X			only daughter of the father graph?
	(A) Daughter		(B) Son	
	(C) Nephew		(D) Cannot be det	ermined
23.				n law of Kritika. Neeraj is ritika is related to Ashok?
	(A) Mother-in-law	(B) Aunt	(C) Wife	(D) None of these
24.				f B, A % B means A is the of the following means T is
	(A) $P \times Q\% R + S - T$	(B) $P \times Q \% R - T + S$	$S(C) P \times Q \% R + T - S$	(D) $P \times Q\% R + S + T$
25.	Pointing to a woman brother." How is the w			the only daughter of my
	(A) Sister		(B) Grandmother	
	(C)Mother in law		(D) Mother	
26.	Vipul said "This girl is to the girl?	s the wife of the g	grandson of my mot	her." How is Vipul related
	(A) Brother		(B) Grandfather	
	(C) Husband		(D) Father-in-law	
27.	Bharat mother say to related to Bharat?	Bharat, my moth	er has a son whose	son is Amar. How is Amar

	(A)	Cousin	(B)	Father	(C)	Brother	(D)	Grandfather
28.		nting towards Ash ther." How is Gauri				s mother is th	ne oi	nly daughter of my
	(A)	Mother	(B)	Grandmothe	r			
	(C)	Sister	(D)	Daughter				
29.		\$ Q means P is the the daughter of Q,					noth	er of Q; P * Q means
	(A)	D	(B)	В	(C)	C	(D)	Data is inadequate
30.		roducing Rajni, Dha ny mother." How Ra					phev	v of the only brother
	(A)	Wife	(B)	Sister	(C)	Sister in law	(D)	Data is inadequate
Direct	ion	(31 to 35): Read th	e fol	lowing given	belo	w and answer tl	ne qu	estion that follows:
	(i)	P is the mother of	I. Bı	ut I is not her	dau	ighter.		
	(ii)	F is the son of I. L	is tl	ne spouse of I	Ρ.			
	(iii)	M is the sister of I	. O i	s the daughte	er of	M.		
	(iv)	N is the spouse of	M. I	K is the mothe	er of	N		
31.	Wh	o is the grandfather	r of (03				
	(A)	K	(B)	L	(C)	I	(D)	F
32.	Wh	o is the daughter of	f L?					
	(A)	L	(B)	I	(C)	N	(D)	M
33.	тоН	w is F related to M?						
	(A)	Brother	(B)	Husband	(C)	Nephew	(D)	Father
34.	Wh	o is K to M?						
	(A)	Sister	(B)	Daughter	(C)	Mother in law	(D)	Father
35.	If I	is P's mother's niec	e an	ıd O is P's cou	ısin	but not sister o	f I, h	ow is O related to I?
	(A)	Sister	(B)	Brother	(C)	Cousin	(D)	Granddaughter
Direct follows		(36 to 40): Read	the	information	give	n below and a	iswe:	r the questions that
	L b		ıber	. O is the da	ught	er of N, who is		M is married couple, sister of L. P is the
36.	Wh	o is the mother?						
	(A)	N	(B)	P	(C)	O	(D)	M
37.	Wh	o is M's wife						
	(A)	Q	(B)	T	(C)	R	(D)	L
38.	тоН	w many male memb	ers	are there in t	he g	roup?		
	(A)	One	(B)	Two	(C)	Three	(D)	Four
39.	тоН	w Q is related to P?						
	(A)	Grandfather	(B)	Father	(C)	Cousin	(D)	Brother
40.	Wh	ich of the following	is a	pair of sisters	s?			
	(A)	ON	(B)	NI	(C)	PO	(D)	OM

PREVIOUS YEAR NTSE QUESTIONS

41.		of female, Ashok elation as Ashok w		's wife is my wife's mother in photo?
	(A) Sister	(B) Wife	(C) Mother	(D) Daughter
42.	A is uncle of B, B D?	is daughter of C, C	C is the wife of D's	son. Then how is A related t
	(A) Son	(B) Brother	(C) Father	(D) Maternal uncle.
43.	Sailesh introduce Mahipal related to	-	on of the only bro	ther of his father's wife How i
	(A) Cousin	(B) Son	(C) Maternal	uncle (D) Son-in law
44.				"She is the daughter of th the lady related to Kaushal
	(A) sister	(B) Maternal a	unt (C) Niece	(D) Cousin
45.		nan, Abhijit said, " he woman related t		er is the only daughter of m
	(A) Sister	(B) Grandmoth	ner (C) Mothe	r-in-law (D) Mother
46.		and S is R's broth acle, how are Q and		laughter of her mother M. If
	(A) Father and Da	aughter	(B) Brother an	d Sister
	(C) Husband and	wife	(D) Brother -	-in -law and Sister - in - law
47.	the husband of P		s the daughter of	e brother of P; A9P means A i P; then which of the followin
	(A) M9N3K4J	(B) M9N5k	X3J (C) K5J94M	(D) K3J94M
Direc	etion (48 to 50) : Th	e question are base	ed on the informat	ion given below.
	alternative and ware question number. brother of Y's hu	rite its alternative r There are six pers	number on your ar on P,Q,R,X,Y and ther of P and gra	orrect answer from the foundswer sheet against the proper Z, R is the sister of Z, Q is the nd father of Z. There are two
48.	Who is Y's husbar	nd?		
	(A) Q	(B)P	(C) X	(D) Z
49.	Who is the mothe	r in the group?		
	(A) X	(B) Q	(C) P	(D) Y
			. 4	
50.	How many male n	nembers are there 1	n the group	

CHAPTER

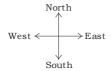
15

Direction Sense

Direction Sense

Question based on directions are generally asked in each examination. Hence in order to give correct answer, a candidate must have full knowledge about directions.

There are four main directions - North, South, East and West as shown below:



There are four cardinal directions – North-East (N-E), Norht-West(N-W), South-East (S-E) and South- West (S-W). These are shown as below

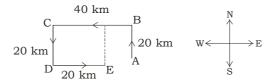


Example

- 1. Gauravm walks 20 km. towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position?
 - (A) 20 km
- (B) 30 km
- (C) 50 km
- (D) 60 km

Solution

(A) Required distance = 40-20 = 20 km



ASSIGNMENT-1

- 1. A man is facing west. He turns 45° in the clockwise directions and then another 180° in the same direction and then 270° in the anticlockwise direction. Which direction is he facing now?
 - (A) South
- (B) North west (C) West
- (D) South west
- 2. A started from a place. After walking for a kilometer, he turns to the left, then walking for a half km. he again turns to left. Now he is going Eastward direction. In which direction, did he originally start?
 - (A) West
- (B) East
- (C) South
- (D) North

3.	to his right and walk	10 metre. He the	en turns to his righ	ralking 30 metre, he turns t and walks for 30 metre s he from point P and in
	(A) Point P itself		(B) 10 metre Nort	h
	(C) 20 metre West		(D) 20 metre Nort	h
4.				is right. Then every time y. How far is he now from
	(A) 5 metre	(B) 10 metre	(C) 15 metre	(D) 20 metre
5.		covers 4 km. B n	noves towards West	n and after walking 3 km and walks 5 km and ther 3 from each other?
	(A) 1 km	(B) 5 km	(C) 8 km	(D) 9 km
6.	A person starts towar will lead him to East of		n. Which of the foll	owing orders of directions
	(A) right, right, right		(B) left, left, right	
	(C) left, right, right		(D) left, right, left	
7.	Amar travels one km finally 9 km due Nort			then 2 km due East and
	(A) 16 kms	(B) 8 kms	(C) 6 kms	(D) 5 kms
8.	_	urned right agair	=	ned right walked another and turned about. Which
	(A) East	(B) North	(C) South	(D) None of these
9.	If I stand on my head right hand point?	d with my face po	inting Northwards,	in what direction will my
	(A) East	(B) West	(C) North	(D) South
10.				. He walked 15 metre and low far was he then from
	(A) 12 metre	(B) 3 metre	(C) 9 metre	(D) 5 metre
11.	The time on the watc	-		and points to North-East
	(A) South-West	(B) South East	(C) North-West	(D) North-East
12.		e found himself or		e 1 km. and again turned tarting point. How far did
	(A) 1 km	(B) 2 km	(C) 3 km	(D) 5 km
13.	A and B start walk respectively. Thereafteright and walked 2 km	er both turned to	right again and wall	B walked 5 km, 6 km ked 3 km, again turned to com each other?
	(A) 12 km	(B) 13 km	(C) $\sqrt{85}$ km	(D) $\sqrt{90}$ km
14.	A watch reads 4 : 30. hour-hand point?	If the minute-har	nd points to East, ir	n which direction does the
	(A) North-East	(B) South-East	(C) North-West	(D) North

L is to South-West of K, M is to the East of L and South-East of K and N is to the North of M in line with LK. In which direction of K is N located?

	(A) North	(B)	East	(C)	South-East	(D)	North-East
16.	If South-East b becomes?	ecomes No	rth, North Ea	ist b	ecomes West a	and so	on, what will South
	(A) North-East	(B)	South-West	(C)	South	(D)	North-West
17.		n-East of I	3. Starting fr	rom	A in anti-cloc		orth-East of A and D direction, in which
	(A) East	(B)	West	(C)	North-West	(D)	South
18.	turned to her le	ft and wall	ked 30 m. The	en sl	ne turned righ	t and o	stance of 40 m. She covered a distance of hich direction is the
	(A) North-west	(B)	West	(C)	North	(D)	East
19.	_	crossing.	If Niharika's			_	to each other face to the right of Nivedita,
	(A) North	(B)	South	(C)	East	(D)	Data is inadequate
20.					_		ch other face to face. lirection was Rakha
	(A) North	(B)	South	(C)	West	(D)	Data is inadequate
			ASSIGNI	MEN	T-2		
21.		m. Again s	she turned ri	ght a	and walked 60		e turned to her right inally, she turned to
	(A) South	(B)	North-West	(C)	West	(D)	South-East
22.	and walked 40 his friend hous covered a distant	m. Again h se. His wife nce of 10 m nd's home.	e turned to he was not the again he tur	is let ere. rned	ft and walked : From there, h left and walke	20 m t le turr ed 50 r	He turned to his left to look for his wife at ned to his right and n. Finally he met his usband met his wife
	(A) 40 m South	n (B)	50 m East	(C)	50 m South	(D)	70 m West
23.	her right and w	alked 40 m walked 50	. Next, she m m. Finally, s	ovec	1 35 m to her 1	left. Th	Then she turned to ten again she turned a distance of 45 m.
	(A) East	(B)	North-West	(C)	South	(D)	West
24.	covered a dista	nce of 50	m. Then aga	in h	e turned to hi	s righ	ned to the right and t and walked 10 m. ction was he moving
	(A) North-West	(B)	South-West	(C)	South-East	(D)	North-East
25.		d walks 40	m. Finally, s	she t	urns to the le	ft and	Then again she turns covers a distance of point.
	(A) East	(B)	North	(C)	North-East	(D)	West

Mental Ability Test

26.	Partik walks 20 km towards he walks 5 km towards No his starting point?			
	(A) Approximately 18 km	South-West (B)	24 km South-W	⁷ est
	(C) 19 km North-East	(D)	15 km North-W	est
27.	Pankaj left for his office in right and drove 30 km. Th he turned left and drove 1:	en he turned left	and covered a di	stance of 50 km. Finally,
	(A) South-East (B)	South-West (C)	North-East	(D) North-West
28.	After walking a distance of of 5 km, then turned right right and covered a distance of the covered and the covered at the cove	nt and covered a	distance of 20 l	km. Then again I turned
	(A) South (B)	North-West (C)	North	(D) East
29.	Starting from point X, Harand walked 50 m. Then a left and covered a distant direction is the point Y from	ngain she turned be of 30 m and r	left and walked	20 m. Again she turned
	(A) 40 m, North-East	(B)	$10\sqrt{13}$ m, North	n-West
	(C) $20\sqrt{13}$ m, North-East	(D)	20 m, North-We	est
30.	I am going 50 km toward Again I turn right and wal direction I am from the sta	lk 20 km. Finally		
	(A) North-West	(B)	North-East	
	(C) South-West	(D)	South-East	
31.	Going 20 kms to the East, to her right and walks 15 How far is she from starting	km. Then again,		
	(A) $\sqrt{1325}$ (B)	$\sqrt{1336}$ (C)	$\sqrt{1327}$	(D) $\sqrt{1328}$
32.	Amit walks 50 kms toward he, turns left and walks 30			
	(A) 45 km (B)	46 km (C)	47 km	(D) $20\sqrt{5} \text{ km}$
33.	Our morning Udai and Vis Vishal's shadow was exact			
	(A) East (B) V	West (C)	North	(D) South
34.	Kuldeep moved a distance and covered a distance of Finally he turned to his rinow?	60 m. Then again	n, he turned to h	is left and walked 20 m.
	(A) West (B)	South-West (C)	North	(D) North-West
35.	Amit started walking posturned left, then turned r going now?	_		
	(A) North or South (B)	East or West (C)	North or West	(D) South or West
36.	The door of Vikas house f straight 40 m, then turns	to the left and wa	lks 40 m again. I	Finally, he turns towards

point now?

	(A) North-East	(B) South-East	(C) North-West	(D) South-West					
37.				urns left again and walks direction is ram walking					
	(A) East	(B) West	(C) North-East	(D) North					
38.				ction and again 135° anti ection. Which direction is					
	(A) South-West	(B) North-West	(C) South-East	(D) East					
39.	Swati started walking far is she from her ori		ns, she turned left ar	nd walked for 5 kms. How					
	(A) 15 km	(B) 7 km	(C) $5\sqrt{2} \text{ km}$	(D) 5 km					
40.	Sam was facing East. clockwise direction. W			tion and then 145° in the					
	(A) North	(B) North-East	(C) North-West	(D) East					
	PRE	VIOUS YEAR I	NTSE QUESTION	S					
Direct	tion (41 to 43): Seven	n villages A, B, C l	D, E, F and G are sit	uated as following					
	E is 2 km to the west	of B							
	F is 2 km to the north	ı of A							
	C is 1 km to the west	of A							
	D is 2 km to the south	s 2 km to the south of G							
	G is 2 km to the east	of C							
	D is exactly in the mic	ddle of B and E							
41.	Which two villages are	e farther from one	another?						
	(A) F - E	(B) G- E	(C) D-C	(D) F - B					
42.	How far is E and F?								
	(A) 5 km	(B) $\sqrt{26}$ km	(C) 4 km	(D) $\sqrt{20}$ km					
43.	A is in the middle of v	which two villages							
	(A) E-G	(B) E - C	(C) G - C	(D) F - G					
44.	Ram travels 8 km to		s to right and travels	s 6 km and at the end he am from initial point is					
	(A) 6 km	(B) 8 km	(C) 10 km	(D) 14 km					
45.			_	and walk 8 km, again he hand walk 8 km, again he hand hand he for					
	(A) 10 km	(B) 18 km	(C) 31 km	(D) 13 km					
46.				100° clockwise and then ing mouth will 1 stand?					
	(A) North-East	(B) South -East	(C) North -West	(D) West					
47.	_	goes 7 km towar	rds North West and	n the goes 14 km turning in the end he goes 9 km					
	(A) 14 km	(B) 7 km	(C) 2 km	(D) 5 km					

48.	to his right. After th	is he goes 5 km to	urning to his right. In	goes 3 km after turning in the end he goes 4 km is he now from the fixed
	(A) 4 km, West	(B) 7 km, East	(C) 9 km, East	(D) 7 km, West
49.	m. Then I turn left a	and walk 10 m an		right again and walk 10 walk 20 m. Then I turn starting point?
	(A) North	(B) North-West	(C) East	(D) North-East
50.				s right. Then every time How far is he now from
	(A) 8 meters	(B) 10 meters	(C) 15 meters	(D) 20 meters

16

Mathematical Operation

Mathematical Operation

We are all familiar with the symbols used for indicating mathematical operations such as addition, subtraction, multiplication and division. When more than one symbol is used in a mathematical expression, we are not supposed to carry out the operations at our discretion. There is a rule as to which operation is to be carried out first. This rule is called the BODMAS rule. Each latter of the world BODMAS represents a mathematical operation and the order of the letters indicates the order in which the operations are to be carried out. The operations indicated by the letters in BODMAS are given below:

- B Brackets removal of brackets (after simplifying the terms therein)
- O Order (exponents) conversion of exponents to normal form
- D Division
- M Multiplication
- A Addition addition of numbers with like signs

(B) 15

S Subtraction – subtraction of numbers with opposite signs

Example

- 1. X stands for +, Z stands for \div , Y stands for -, and P stands for ×, then what is the value of 10 P 2 X 5 Y 5?
 - (A) 10 > 10 P 2 X 5 Y 5
 - $10 \times 2 + 5 5 = 20$

So, the answer is (C)

- 2. If L denotes \times , M denotes \div , P denotes + and Q denotes -, then find the value of 16 P 24 M 8 O 6 M 2 L 3
 - (A) 6
- (B) 8
- (C) 10

(C) 20

(D) 12

(D)

25

- \Rightarrow 16 P 24 M 8 Q 6 M 2 L 3
 - $16 + 24 \div 8 6 \div 2 \times 3$
 - $16 + 3 3 \times 3$
 - 16 + 3 9 = 10

So, the answer is (C)

ASSIGNMENT-1

Direction (1 to 6): The given equation becomes correct when symbols and number are interchanged as given in one of the options. Find the correct option

- 1. $27 \div 3 (4+7) \times 18 = -1$
 - (A) \div and \times
- (B) + and -
- (C) and \div
- (D) \times and +

- 2. $6 + 45 9 \div 4 \times 2 = 3$
 - (A) \times and -
- (B) \div and +
- $(C) \div and -$
- (D) + and \times

Direction (7-9) Mathematical symbols (sings) are missing between the numbers. The missing symbols in proper sequence are given in the alternatives. When the symbols given in one of the alternatives are inserted between the numbers in the same sequence, the equation becomes correct. Find the correct alternative.

7. 69 23 111 37 1 = 10
(A)
$$+ - \times \div$$
 (B) $\div + \div -$ (C) $\times - \times -$ (D) $\div \times \div + 2$
8. (8 7) 5 (78 6) = 62
(A) $- \times \times \div$ (B) $+ \times - \div$ (C) $+ \div + \div$ (D) $\times - - \div$
9. (13 9) (14 11) 13 = 3
(A) $+ \times + \div$ (B) $- \times - \div$ (C) $\times \div - \div$ (D) $\times \times - \div$

Directions (10-20): In question below, equations have become wrong due to wrong order of signs. Choose the correct order of signs from the give alternatives given under each question so that the equation becomes right.

(A) -+= $(B) + \times =$ $(D) = \times -$

20.
$$4 = 4 + 4 \div 2$$

(A) $+ \times =$ (B) $= \times +$ (C) $\div = \times$ (D) $+ = \times$

ASSIGNMENT-2

If P means ×, R means +, T means ÷ and S means -, then 18 T 3 P 9 S 8 R 6 = ?(D) $\frac{2}{3}$ (C) 52 (B) 46

22. If A means -, B means ÷, C means + and D means ×, then

21.

	15 B 3 C 24 A 12 D 2	4 = ?			
	(A) 2	(B) $\frac{5}{9}$	(C)	$-23\frac{4}{9}$	(D) None of these
23.	If $A = 16$, $C = 8$, $D = 3$ $C + A \times B \div D = ?$,		,	
	(A) 27	(B) 46	(C)		(D) None of these
24.	If A stands for +, B st (10C4) A (4C4)B6 = ?		ds fo	r × then the valu	ue of
	(A) 60	(B) 56	(C)	50	(D) 46
25.	If + means ×, ÷ mean	s –, × means ÷ and	1 – m	eans + then the	value of
	58–6×34÷2 + ? (A) 49	(B) 64	(C)	104	(D) None of these
26.	If + means ×, - mean	s ÷, × means –, an	` '		` '
	$16 \div 64 - 8 \times 4 + 2 =$ (A) 12	? (B) 16	(C)	18	(D) 2
27.	` '	` '	` '		ect response from given
	premises stated acco				C 1:
					for division, – stands for an, < stands for minus,
	then which of the foll	lowing alternatives	is co	orrect?	
	(A) $3 + 2 < 4 \div 6 > 3$ (C) $3 \times 2 < 4 - 6 \times 3$			$3 \times 2 < 4 \div 6 + 3 \times 2 \times 4 = 6 + 4 \times 4$	
28.	If "÷" means "+", "-" r		()		
-0.	32÷8–4×12+4 = ?	, 11100		11100110	, 0.10.11
	(A) 40	(B) 1/12	(C)	16	(D) -14
29.	If "x" stands for "+"; "	'y" stands for "–", "	z sta	nds for "÷" and "	w" stands for "x" then
	$10w\ 2x\ 5y\ 5 = ?$	-			
	(A) 15	(B) 12	(C)	20	(D) 10
30.	If "-" stands for "x", " what will be the value				"÷" stands for "–", then
	8-4+16×8-10 = ?				
	(A) 54	(B) 82	(C)	15	(D) 10
31.	If Δ denotes =; + deno	tes >, – denotes <, [⊐ den	otes ≠,×denote	s > and ÷ denotes < then
	a + b – c denotes				
	(A) b∆c□a	(B) b □a ÷ c	(C)	$a \div b \times c$	(D) $b-a+c$
32.	If * denotes "×",∆ der	notes "÷", □ denotes	"_",	• denotes "+", α	denotes "=" and β
	denotes \neq , then which	of the following eq	uatio	n is correct?	
	(A) 2□10*4Δ5α5•12/	Δ6	(B)	27Δ9 • 6β3 * 6□9	
	(C) $4\Delta 2 * 0\alpha 7\Delta 1 * 0$		(D)	None of these	
33.	If the given signs + as be correct?	nd – are interchan	ged t	hen which of the	e following equations will
	(A) $2 + 7 - 8 = 3$	(B) $3 - 1 + 4 = 2$	(C)	9 + 3 - 5 = 7	(D) $6 + 3 - 8 = 5$
34.	If 'A' stands for 'X', E the result of the follo		tand	s for '+' and D st	ands for '÷', what will be
	8 B 3 C 10 A 2 D 5				
	(A) 7	(B) 1	(C)	9	(D) 13
35.	If 'x' means '+', '÷' me result of the following		÷' an	d '-' means '×', t	hen what will be the

	$8 \times 7 - 8 + 40 \div 2$			
	(A) 4	(B) $6\frac{3}{7}$	(C) 13	(D) $7\frac{2}{5}$
36.	If plus means divided by and minus means $18 + 3 \div 4 - 8 \times 12 =$	plus, then	neans minus, divided	l by means multiplied
	(A) $6\frac{1}{4}$	(B) 20	(C) $3\frac{1}{3}$	(D) $-6\frac{2}{3}$
37.	If – means ×, '+' mean $8 + 6 \div 4 - 7 \times 3 = ?$	ns '÷', '×' means '+'	and '÷' means '–', the	n
	(A) $7\frac{1}{5}$	(B) 12	(C) $-11\frac{1}{2}$	(D) $-23\frac{2}{3}$
38.	If A stands for '+', B s	stands for '–', C sta	nds for '×', then 10 C	4 A 4 B 6 = ?
	(A) 50	(B) 42	(C) 58	(D) 46
39.	If \downarrow stands for '÷', \uparrow s	tands for ' \times ', \rightarrow star	nds for '+' and \leftarrow stand	ds for '–', then
	(A) 9	(B) 12	(C) 16	(D) 15
40.	If '+' means 'x', '-' me	ans '÷', 'x' means '-	-'and '÷' means '+', th	nen
	$9 + 8 \div 8 - 4 \times 9 = ?$			
	(A) 65	(B) 17	(C) 26	(D) 11
	PRE	VIOUS YEAR N	ITSE QUESTIONS	8
41.	In a certain code lang value of 5 + 4 ÷ 24 –			2 = 1, then find the
	(A) 9	(B) 11	(C) 17	(D) 29
42.	_	=		and 5 are interchanged e value of the following
	93	$3 \div 5 + 7 \times 3 + 25 =$		
	(A) 95	(B) 73	(C) 57	(D) 75
43.	If × stands for – + sta	nds for ÷, ÷ stands	s for \times and – stands for	or + then
	$6 \div 4 + 3 - 7 \times 9 + 3 \text{ is}$	3		
	(A) 20	(B) 16	(C) 16	(D) 19
44.	If $9 + 3 = 6273$, $8 + 2$	= 6164 then 10 +	5 =	
	(A) 5250	(B) 5515	(C) 5502	(D) 5205
45.	If × means ÷, – means	s ×, – means + and	+ means -, then	
	$(3 \times 15 \div 19) \times 8 + 6$	=?		
	(A) 8	(B) 4	(C) 2	(D) - 1
46.	If \div means \times , \times mean $16 \times 2 \div 4 + 7 - 8 = ?$	s ÷, – means ÷ and	÷ means –, then –	
	(A) 31	(B) 29/2	(C) 43/2	(D) 15
47.	If 'p' means '-', 'q' me	ans '+', 'r' means '÷	-'and 's' means 'x', th	nen –
	16 p 4 q 5s 8r 2= ?			
	(A) -8	(B) 32	(C) 20	(D) 12

48. A + B > C + D and B + C > A + D then it is definite that

- (A) D > B
- (B) C > D
- (C) A > D
- (D) B > D

49. If 264 * 2 = 6, 870 * 3 = 11 then 735 * = be

- (A) 5
- (B) 12
- (C) 16
- (D) 3

50. If '+' means '×', '×' means '÷', '÷' means '-' and '-' means '+', which will be the value of $(22 \times 2 \div 4 - 5) + 8 = ?$

- (A) 14
- (B) 28
- (C) 96
- (D) 56

17

Coding Decoding

A Code is a system of signals. Therefore, Coding is a method of transmitting a message between the sender and the receiver without a third person knowing it.

The Coding and Decoding Test is set up to judge the candidate's ability to decipher the rule that codes a particular word/message and break the code to decipher the messages.

Example – 1:

In a certain code, TEACHER is written as VGCEJGT. How is CHILDREN written in that code?

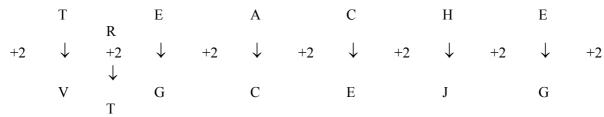
a) EJKNEGTP

b) EGKNFITP

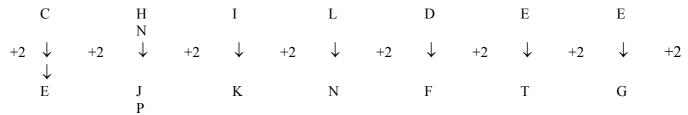
c) EJKNFGTO

d) EJKNFTGP

Sol. Clearly, each letter in the word TEACHER is moved two steps forward to obtain the corresponding letter of the code.



Similarly, we have:



So, the desired code is EJKNFTGP. Hence, the answer id (D).

ASSIGNMENT-1

1. If the word HAPPEN is coded as IJBCQRQRFGOP, what word does 'CDFGTUUV' stand for?

(A) WEST

(B) NAME

(C) BEST

(D) LAME

2. If SLEEP is coded as XMKKB, SPEAR is coded as XBKOY and PULL as BFMM, how would you decode PLEASURE?

(A) KMNOXYZ

(B) BMOKXFYK (C) BMKOXFYK

(D) MOKXB

3.	If VKRYH means SH	OVE,	what would S	SLVW	/RO mean?			
	(A) PISTOL	(B)	BRASSO	(C)	SOLUTE	(D)	MATURE	
4.	In a certain code if code?	FHQ!	K means GIR	L, h	ow will WOME	N be	written in the same	
	(A) VNLDM	(B)	FHQKN	(C)	XPNFO	(D)	VLNDM	
5.	In a code language L	OND	ON is written	as M	IPOEPO. What	is the	code for CPNCBZ?	
	(A) DQODCA	(B)	BOMBAY	(C)	MADRA	(D)	RAJKOT	
6.	In a certain code Mothe same code?	ONKE	Y is written a	as X	DJMNL. How w	ould	TIGER be written in	
	(A) QDFHS	(B)	SHFDQ	(C)	UJHHFS	(D)	QDHJS	
7.	If CLOCK is KCOLC,	how	will STEPS be	wri	tten in that cod	e?		
	(A) SPEST	(B)	SPSET	(C)	SPETS	(D)	SEPTS	
8.	In a certain code G written in that code?		SMAN is writ	ten a	as AGMEMSAN	I. Hov	w will DISCLOSE be	
	(A) IDSCOLSE	(B)	IDCSOLES	(C)	IDSCOLES	(D)	IDSCLOSE	
9.	In a certain code PR same code?	ACTI(CAL is writter	ı a P	ARTCCILA, hov	v is T	RAINS written in the	
	(A) TARINS	(B)	TANRIS	(C)	TAIRNS	(D)	TARNIS	
10.	If GOLFER is coded	as HN	MEFQ. HUNG	GER	is coded as			
	(A) ITOFFQ	(B)	IVOHFS	(C)	ITODFQ	(D)	TIDOQF	
11.	If POWER stands for	7251	4, then ROW	star	nds for			
	(A) 452	(B)	425	(C)	524	(D)	542	
12.	If 312534 stands for	REC	ORD, then 35	3 sta	ands for			
	(A) ROD	(B)	COR	(C)	ROC	(D)	ROR	
13.	If GROWTH stands for 579312, then THROW stands for							
	(A) 12793	(B)	21793	(C)	21973	(D)	21379	
14.	If INDEED stands for	r 123	443 then NEE	ED st	ands for			
	(A) 4423	(B)	2434	(C)	2344	(D)	2443	
15.	If SLIGHT stands for	4268	375, then GIS	T sta	ands for			
	(A) 6845	(B)	8645	(C)	4568	(D)	4586	
16.	If 75310 stands for S	SWEA	T, then 710 s	tand	s for			
	(A) SET	(B)	SAT	(C)	EAT	(D)	TEA	
17.	If HOME is 2541; SH	IOP is	8256; WORI	K is 9	9573, what is S	MOKI	Ξ?	
	(A) 85431	(B)	84531	(C)	83451	(D)	84351	
18.	If RACE is 4793, FACE	CT is	1795 FORCE	is 16	5493, what is R	EACT	.5	
	(A) 43759	(B)	43975	(C)	43795	(D)	59734	
19.	If EARTH is 12347,	[RAC]	E is 43251, F	ARC	E is 92351, the	n wha	at is FACT?	
	(A) 9254	(B)	9524	(C)	9245	(D)	9425	

20.	If PLOT is 5321, T.	AKE is 1790	and PINK is	5469, what is P	LATE?
	(A) 35710	(B) 537	10 (C)	53701	(D) 53071
		A	SSIGNMEN	NT-2	
21.	If PALE is coded a code	as 2134, EAF	RTH, is code	d as 41590, ho	w is PEARL coded in that
	(A) 29530	(B) 241	53 (C)	25413	(D) 25430
22.	In a certain langu how is GARAGE co			s coded as 3, C	is coded as 5 and so on
	(A) 113193118	(B) 132	362139 (C)	131271138	(D) 131351139
23.	If in a certain code how is SON coded			5301, UNCLE as	s 84670, and BOY as 129
	(A) 524	(B) 643	(C)	353	(D) 846
24.	If in a certain lang how is RIVETS coo			as 1234567 an	d RISK is coded as 2198
	(A) 687543	(B) 234	769 (C)	496321	(D) 246598
25.	If PLAY is coded as	s 8123 and R	HYME is cod	led as 49367, h	ow is MALE coded?
	(A) 6217	(B) 619	8 (C)	6395	(D) 6285
26.	In a certain code tasty'. Which of th				e nac hor' means 'Food is at code
	(A) Hor bir pic	(B) Pic	hor nac (C)	Bir le hor	(D) None of these
27.		and Mst S			rho mst' stands for Sweet than smile', what would
	(A) Rho	(B) Mst	(C)	Tmp	(D) Sco
28.		Sup zo yop'			good', 'Kol so hir' means ch of the following means
	(A) Sup	(B) Na	(C)	Kol	(D) None of these
29.		rnal', 10a, 4d	1, 2b, 8b me		nal', 7c, 9a, 8b, 3a means not Perish'. Which of the
	(A) 3a	(B) 2b	(C)	7c	(D) 9a
30.		nful habit' ar	nd Dor bis ye	el means 'Please	is harmful, 'Vog dor nat avoid smoking'. Which o
	(A) Vog	(B) Nat	(C)	Dor	(D) None of these
31.	If orange is called 'Honey', Honey' is				called Ink', Ink' is called g clothes?
	(A) Honey	(B) But	ter (C)	Orange	(D) Ink
32.	If 'Water' is called 'Wall'. On which of				alled 'Sky', 'Sky' is called
	(A) Water	(B) Foo	d (C)	Sky	(D) Tree
33.					called 'Green', 'Green' is Where do the birds fly?
	(A) Air	(B) Clo	ud (C)	White	(D) Blue

34.		ole, 'Apple' is 'Grape of the following is a y	-	ango', 'Mango' is 'Nuts', 'Nuts'
	(A) Mango	(B) Guava	(C) Apple	(D) Nuts
35.		•	•	s called 'Pullover', 'Pullover' is ollowing would a man wear in
	(A) Hat	(B) Pullover	(C) Shirt	(D) Collar
36.	If WORD is coded	as 15 how will you	code GOLD?	
	(A) 9.5	(B) 40	(C) 8.5	(D) 3.8
37.	If BASIC is coded	as 6.8, how will you	code TEARS?	
	(A) 34	(B) 12.6	(C) 40	(D) 36
38.	If PUSH is coded a	as 64 how will you o	code MUST?	
	(A) 36	(B) 73	(C) 18	(D) 38
39.	If CLASS is coded	as FODVV, how will	you code MONTI	H?
	(A) OQPVJ	(B) PRQWK	(C) RTVYM	(D) QSUXL
40.	If TILAK is coded	as VKNCM, how will	you code TIMES?)
	(A) PNOGH	(B) UJNFT	(C) VKOGU	(D) WLPHV

PREVIOUS YEAR NTSE QUESTIONS

Direction (41-44): The letters in column I are coded in the form of numbers. Which are written in column II, but the order of numbers in different. Read carefully code of letters. Find out correct answer in given alternative and write its alternative number against the corresponding question number on your answer sheet

	Column I	Column	II		
	СJL	359			
	EJP	092			
	PCK	304			
	KND	478			
	N E V	721			
41.	What will be code of	K N P -			
	(A) 870	(B) 327	(C)	951	(D) 470
42.	What will be code of	CJE			
	(A) 123	(B) 392	(C)	724	(D) 803
43.	What will be code of	LJK-			
	(A) 270	(B) 903	(C)	594	(D) 741
44.	What will be code of	PVD			
	(A) 018	(B) 372	(C)	209	(D) 743
45.	If in certain code lar R in same language?		writte	n as C G J K. W	That will be code of C H L
	(A) A D H N	(B) $B E J M$	(C)	EJIO	(D) A E H M
46.	If in certain code lar same language?	nguage G L R T is	writte	en as 21. What v	will be code of C H N S in
	(A) 13	(B) 11	(C)	19	(D) 17
47.	If UDOMETER is coo	ded as DUMOTERE	ther	n how will SUBL	EASE be coded?

	(A) USLBESAE	(B) USLBAEES	(C)	USBAELES	(D) none of these
48.	If RASCAL is coded a	s QZRBZK then ho	w wi	11 SOLDER be co	ded?
	(A) RNMEDQ	(B) RPKEDS	(C)	TPMEFS	(D) RNKCDQ
49.	If Sand is a coded as then where do you w		use,	House as Temple	e, Temple as Palace
	(A) Palace	(B) Temple	(C)	Brick	(D) House
50.	If 678 means – Socie 342 means – Health				sbandry Health Control n used for "Health"
	(A) 7	(B) 4	(C)	2	(D) None of these

18

Number and Ranking

Number and Ranking

Ranking is based on the arrangement of things in a particular order. The arrangement may be on the basis of their position, size, age etc.

Position Series Test:

In this series, question are asked about the positions of the persons from up or down, or from left or right etc, a some important types are as given below:

Examples

- 1. In a line of girls if Kamla's position from the left is 15th and from the right her position is 17th, how many girls are there in the line?
 - (A) 20
- (B) 21
- (C) 31
- (D) 36

Solution

- (C) Total no. of girls = Kamla's position from left + her position from the right -1 = 15+17-1=31
- 2. In a line girls Nivedita's position from the left is 18^{th} and Priti's position from the right is 22^{nd} . If there are 5 girls between them, what is the total number of girls in the lines?
 - (A) 22
- (B) 33
- (C) 44
- (D) 55

Solution

(B) In this question there are two possible positions.

Position I

$$A \xrightarrow{\text{Nivedita}} 5 \xrightarrow{\text{Priti}} B$$

:. Total no. of girls = 18+5+22 = 45

Position II

 \therefore Total no. of girls = 22+18-(5+Priti + Nivedita) = 22+18-7 = 33

ASSIGNMENT-1

1.	How many 6's are there in the following number series, which are preceded by 5 but not followed by 7?							
	56765649276743568649567							
	(A) One	(B)	Two	(C)	Three		(D)	Four
2.	How many 4's followed by only			lowing	number	series,	whi	ich are preceded by
		643	24831542	324648	3132426	45		
	(A) One	(B)	Two	(C)	Three		(D)	Four
3.	How many 2's not followed by			ing nur	nber seri	es, whi	ch a	re preceded by 5 but
		13523	54524522	624526	782352	7524		
	(A) One	` '	Two	` ,	Three		` '	None of these
4.	How many 3's number but for		the follo	wing se	ries, wh	ich are	not	preceded by an odd
		1532	34653478	834923	4563435	34		
	(A) None	(B)	Two	(C)	Four		(D)	One
5.	How many B's not be followed		the follow	ving lett	er series	which	are	flowed by G but G is
		BGSQBRI	NOBGNSQ)LTBGÇ	TDBGU	WXBGF	`	
	(A) 4	(B)		(C)			(D)	
6.	How many D' followed by Q?		in the fo	llowing	series,	which	are	preceded by K and
		KDRME	SKDQKR	BLKDQ:	MQDKE	FQDK		
	(A) 4	(B)	2	(C)	1		(D)	3
7.					•			the numbers which bers will be left?
	(A) 24	(B)	23	(C)	22		(D)	25
8.	Which is the the following se			of the	number	which i	s exa	actly in the middle of
	1	2345678	392468	3975	31987	6543	3 2 1	
	(A) 3	(B)	4	(C)	5		(D)	6
9.	How many 3's nor immediate			wing se	quence v	vhich a	re ne	either preceded by 6
		9366	539593	3789	16396	3 9		
	(A) One	(B)	Two	(C)	Three		(D)	Four
10.	Count each 7 veither 2 or 3. F				eded by	5 but is	imr	nediately followed by
		572657	738373	3 2 5 7 :	27348	32678	3	
	(A) 2	(B)	3	(C)	4		(D)	5
11.	How many 6's but not immed			ving ser	ies of nu	ımbers	whic	ch are preceded by 7
		6795697	768767	7869	46776	9576	5 3	
	(A) One	(B)	Two	(C)	Three		(D)	Four

12.	How many 7's are then 3 but immediately pre		series which are no	t immediately followed by
	89876	226326973	2872778737	7 9 4
	(A) 10	(B) 3	(C) 2	(D) 0
13.	2, but 2 is not immedia	ately followed by	3. How many such	
			5 1 1 2 4 1 2 3 2 1 7	
	(A) 2	(B) 4	(C) 5	(D) 7
14.	How many 7's are the followed by 8	re in the following	g series which are pr	receded by 6 which is not
	8767	867567976	16776886976	8 7
	(A) Nil	(B) One	(C) Two	(D) Three
15.	In the following list of by 4?	numerals, how n	nany 2's are followed	d by 1's but not preceded
	42121421124	4 4 1 2 2 1 2 1 4	4 2 1 4 2 1 2 1 2 4	1 4 2 1 2 4 1 4 6
	(A) Two	(B) Three	(C) Four	(D) Five
16.				boys and fourth from the there are 28 boys in the
	(A) 12	(B) 13	(C) 14	(D) 20
17.		examination. Six	boys did not parti	from the bottom among cipate in the competition
	(A) 40	(B) 44	(C) 50	(D) 55
18.				the left and Q is seventh w many boys are there in
	(A) 25	(B) 23	(C) 21	(D) 19
19.	Radhika ranks twelfth	in a class of forty	six. What will be h	er rank from the last?
	(A) 33 rd	(B) 34 th	(C) 35 th	(D) 37 th
20.				ectively from the top in a s from the bottom in the
	(A) 20th and 24th		(B) 24th and 20th	
	(C) 25^{th} and 21^{st}		(D) 26^{th} and 22^{nd}	
		ASSIGNI	IENT-2	
21.	Mayur is 7 ranks ahe from the last, what is			noj's rank is seventeenth
	(A) 14 th	(B) 15 th	(C) 16 th	(D) 17 th
22.	In a class of 60, when the top. If there are 9			ranked seventeenth from are after him in rank?
	(A) 3	(B) 7	(C) 12	(D) 23
23.	In a row of ten boys,	_		aces towards the left, he ition from the right end of
	(A) First	(B) Second	(C) Fourth	(D) Sixth

24.	whi		een Piyush	and Om. I	f Piyush b	e ahead of	teenth from the end OM and there be 48 ish and Palak?
	(A)	8	(B) 7	(C)	6	(D)	5
25.	tent Mee plac	th place frm the leann occupy seven	ft end, res _l teenth pla	pectively If aces from,	they inter Preeti an	change the id Meena	m the right end and eir places, Preeti and occupy seventeenth ively How many girls
	(A)	25	(B) 26	(C)	27	(D)	Date inadequate
26.	righ		nge their j	positions, S			eventeenth from the teenth from the left
	(A)	25	(B) 27	(C)	29	(D)	None of these
27.	righ		erchange	their places	s among	themselves	ak is sixth from the s, Mahima becomes n the right?
	(A)	4 th	(B) 8 th	(C)	14^{th}	(D)	15 th
28.	Whe		interchang	ge position,	Ajay beco	omes twen	welfth from the left ty first from the left
	(A)	8 th		(B)	17^{th}		
	(C)	21^{st}		(D)	Cannot b	e determir	ned
29.	and	B and eight perso	ns between	n B and C.	If there be	e three per	e persons between A sons ahead of C and ersons in the queue?
	(A)	41	(B) 40	(C)	28	(D)	2
30.	If th	•	eir position				welfth from the right and from the left How
	(A)	19		(B)	cant be d	letermined	
	(C)	33		(D)	None of t	hese	
31.	28th		member tl	nat Harsha'	s birthday	•	r 20 th May but before re 22 nd May but after
	(A)	20th May		(B)	21st May		
	(C)	22 nd May		(D)	Cannot b	e determir	ned
32.	thir was	teenth of Decembe	er. Here signification	ster Kaman before four	i rememb	ers that th	er eighth but before neir father's birthday . On which date of
	(A)	10^{th}		(B)	11^{th}		
	(C)	12 th		(D)	Data ina	dequate	
33.	his	mother remembers	s that he w	vas born af	ter 14 th A ₁	pril and be	and 16 th April while fore 17 th April. If the April he was born?
	(A)	14	(B) 16	(C)	14 pr 15	(D)	15

34.		nks ahead of Suje	et in a row of 35 pe	for watching a parade, ersons. If Sujeet's rank is rt?			
	(A) 7	(B) 8	(C) 11	(D) 10			
35.	In an annual job fest starting in a 55 perso	•		o ranks twenty-fifth from			
	(A) 36	(B) 38	(C) 19	(D) 18			
36.		om the right. If in	this row Manjul is to	eventh from the left and welfth from the right then			
	(A) 12	(B) 13	(C) 8	(D) 15			
37.		right end in a row.	If there are eight au	is fifth from the left and adience/ persons between			
	(A) 20	(B) 21	(C) 22	(D) 23			
38.		om the right. Ther	re are five students s	s fourteenth from the left itting between Ankur and n from right?			
	(A) 9	(B) 10	(C) 11	(D) 12			
39.		n the left end of a	row of 32 girls and	nce is in the form of row. Nisha is twelfth from the en them in the row?			
	(A) 6	(B) 7	(C) 8	(D) 9			
40.	In a Union of 30 personnel. How many personnel			is seventh from the right arth to the left of Y?			
	(A) 4	(B) 5	(C) 6	(D) 8			
	PRE	VIOUS YEAR I	NTSE QUESTION	is			
41.	ranks 5th among the	boys in the class,	Suman is one rank	the girls in the class Amit below Amit in the class. mits rank in the class?			
	(A) 7th rank		(B) 5 th rank				
	(C) 8th rank		(D) Can not be determined				
42.			_	es towards the right, he from the right end of the			
	(A) 11	(B) 9	(C) 12	(D) 10			
43.	Ina line of 200 play sequence order from		uence is 18th from	the left side what is his			
	(A) 182	(B) 183	(C) 185	(D) 186			
44.	If same ranked nint number of students i	-	and 42tnd form the	e bottom in a class, the			
	(A) 51	(B) 50	(C) 49	(D) 52			
45.	The number of 7's in preceded by 8, is:	the following seri	es which are preced	ed by 6 and which is not			
		8767887567976	177688697689				
	(A) 3	(B) 4	(C) 8	(D) 5			

46.	How many 3,s are there in the following number series, which are preceded by an odd number out not followed by an even number?				
	34	425315213673182	785391345235435		
	(A) One	(B) two	(C) Three	(D) Four	
47.	How many 4,s are the not followed by 7? 23		_	ch are preceded by 5 but	
	(A) One	(B) two	(C) Three	(D) Four	
48.	How many D's are the following by Q?	here in the following	ng letter-series which	are preceded by K and	
	K	DRMBSKDQKRBL	KDQMQDKEFQDK		
	(A) 4	(B) 2	(C) 1	(D) 3	
49.	42341122341224433 4 comes before?	35341123 in the al	bove series, how man	y 3's are there such that	
	(A) 4	(B) 3	(C) 2	(D) 1	
50.	Harshal is standing at the centre of a raw of boys. Ujwal is eighth to the left of Harshal, Shubham is standing twenty first of Ujwal, but he is thirteenth to the left of Kishore. Find the total number of boys standing in a row.				
	(A) 27	(B) 35	(C) 52	(D) 53	

19

Alphabet Test Letter Change Sequence

				Sequence
Alpha	abet Test Letter C	hange Sequence		
In let	tter change sequer	nce a word is given,	its letter are int	terchanged in some sequence,
then	the changed word	is formed by then ins	structions.	
Exan	nples			
1.				er is interchange with adjacent
left a	nd n is interchange	ed to immediate right	t, then what word	will be formed
	(A) Eurdptn	(B) Urdpnet	(C) Pneurtd	(D) pruendt
Solu	tion			
	(A) New word	l will be Eurdptn		
		ASSIG	NMENT-1	
1.	Number of lette consecutive even	. = =	ween the adjace	ent letters in the series are
	Which of the foll	owing series observes	s this rule?	
	(A) CDFIM	(B) ADIPY	(C) GIMSZ	(D) DFJPX
2.		s skipped in between bllowing series observ		in the series increases by one.
	(A) CPTOV	(B) HCFKP	(C) HJHQV	(D) IKNRW
3.	English alphabe		appears first in	tters between them as in the the alphabet is the answer. If a your answer as X
	(A) L	(B) O	(C) P	(D) X
4.		now many letters I th alphabetical order?	e word BRAKES	remains unchanged when they
	(A) One	(B) Two	(C) Three	(D) More than three
5.				as they appear in the English remain unchanged after such
	(A) None	(B) One	(C) Two	(D) Three
6.	-	how many letters in within the word are		ERFUL will remain unchanged tically?
	(A) None	(B) One	(C) Two	(D) Three
7.	following will be	the meaningful wor	d? If more than o	is reversed, then which of the one such word can be formed, med, mark 'X' as the answer

	NAIL, PAIL, RA	IL, MADAM, REST		
	(A) PAIL	(B) RAIL	(C) MADA	AM (D) S
8.		n the word UNDERTANGE in the middle in ord		ranged in the alphabetical order, earrangement?
	(A) G	(B) I	(C) K	(D) N
9.	Which letter in English alphab		CS occupies t	the same position as it does in the
	(A) C	(B) E	(C) I	(D) T
10.	third and the f		and the sixt	SSION were interchanged, also the h letters and so on, which of the
	(A) R	(B) O	(C) S	(D) I
11.	alphabet in or		olaced at odd	s a letter leaving two letters of the l-numbered positions and leaving ed positions?
	(A) ADFIKN	(B) BEGJLN	(C) CFHK	LO (D) DFIKNP
12.	Select the serie	s in which letters are r	not according	to a general rule.
	(A) CEGIKM	(B) MORTVX	(C) PRTV	XZ (D) ZBDFHJ
13.		ers skipped in betweer llowing series observes		ters in the series decrease by two.
	(A) EPVAF	(B) GPWBE	(C) UCJO	P (D) XFMQU
14.		ers skipped in betweer llowing series observes		ters in the series decrease by one.
	(A) DBPUY	(B) DBUYP	(C) DBYP	U (D) DBYUP
15.		ers skipped in between following series obser		ters in the series are multiples of
	(A) AFLPZ	(B) GKOTZ	(C) LORU	X (D) DHLPU
16.		ers skipped in between th f the following series		ters in the series is in the order of rule given above?
	(A) CEJT	(B) EGLO	(C) EGLP	(D) RTWZ
17.	Select the serie order.	s in which the letters	skipped in be	tween adjacent letters decrease in
	(A) AGMRV	(B) HNSWA	(C) NSXC	H (D) SYDHK
18.		ers skipped between ac of the following series		s in the series is in the order of 2, rule given above?
	(A) CEGLT	(B) FNKOT	(C) QTZH	S (D) SYBEP
19.	the twelfth lett last letter of th	ers of the word 'CON'	TRIBUTION', ' one such w	e second, the sixth, the ninth and which of the following will be the ords can be made, give M as the e answer.
	(A) O	(B) N	(C) M	(D) X
20.		vord is formed, then fin		etters of the word 'PERSONALITY', he words is the answer, otherwise
	(A) S	(B) R	(C) T	(D) X

ASSIGNMENT-2

21.	How many pairs of letters are there in the word 'BUCKET' which have as meletters between them in the word as in the English alphabet?	any
	(A) One (B) Two (C) Three (D) Four	
22.	Two letters in the word 'PRESENCE' have as many letters between them in the vas in the alphabet and in the same order. Which one of the two letters comes ea in the English alphabet?	
	(A) C (B) E (C) R (D) P	
23.	How many letters are there in the word 'CREATIVE', which have a as many let between them in the word as in the English alphabet?	ters
	(A) 1 (B) 2 (C) 3 (D) 4	
24.	In the word 'PARADISE', how many pairs of letters are there which have as m	lany
	letters between them in the word as in the English alphabet? (A) None (B) One (C) Two (D) Three	
25.	(A) None (B) One (C) Two (D) Three How many pairs of letters in the word 'DABBLE' have as many letters between the	hom
4 3.	in the word as in the English alphabet?	
06	(A) Nil (B) One (C) Two (D) More than three	
26.	How many independent words can 'HEARTLESS' be divided into without chan the order of the letters and using each letter only once?	ging
0.77	(A) 2 (B) 3 (C) 4 (D) 5	
27.	How many independent words can 'STAINLESS' be divided into without change the order of the letters and using each letter only once?	gıng
	(A) Five (B) One (C) Two (D) Three	
28.	From the word 'ASTOUNDER', how many independent words can be made with changing the order of the letters and using each letter only once?	ıout
	(A) Five (B) One (C) Two (D) Three	
29.	From the word 'BEHIND', how many independent words can be made with	ıout
	changing the order of the letters and using each letter only once?	
20	(A) 1 (B) 2 (C) 3 (D) 4	. 1
30.	From the word 'LAPAROSCOPY', how many independent meaningful words car made without changing the order of the letters and using each letter only once?	ı be
	(A) 1 (B) 2 (C) 3 (D) 4	
31.	How many pairs of letters are there in the word EXPLOSION which have as me letters between them in the word as there are between them in the Engalphabet?	•
	(A) One (B) Two (C) Three (D) Four	
32.	How many pairs of letters are there in the word ATMOSPHERE which have as maletters between them in the word as there are between in the English alphabet?	any
	(A) Two (B) Three (C) Four (D) Five	
33.	If all the letters of the word UNIVERSAL are arranged in alphabetic order to number of the positions of each letters is given according to new arrangement to what is difference between number positions of vowels and those of consonants?	
	(A) 19 (B) 17 (C) 21 (D) 20	
34.	How many pairs of letters are there in the word KINDNESS which have as meletters between them in the word as there are between in the alphabet?	any
	(A) None (B) One (C) Two (D) Three	
35.	If with the first second, fifth and sixth letters of the word EXCLAIM a meanin word is formed then third letter of the word is the answer. If no word is possible t Y will be your answer and if more than one such word can be made then given I answer	hen
	(A) Y (B) N (C) C (D) M	
36.	How many pairs of letters are there in the word 'BUCKET' which have as meletters between them in the word as in the English alphabet?	any

	(A) One	(B) Two	(C) Three	(D) Four
37.	How many pai	rs of letters are ther		EATIVE which have as many
	letters between	them in the word as		abet?
	(A) One	(B) Two	(C) Three	(D) Four
38.		rs of letters are there in the word as in the l		N which have as many letters
	(A) Nil	(B) One	(C) Two	(D) More than three
39.	5 1	rs of letters are there them in the word as		NGOUR which have as many abet?
	(A) One	(B) Two	(C) Three	(D) Four
40.		rs of letters are there in the word as in the		E which have as many letters
	(A) One	(B) Two	(C) Nil	(D) More than three
		PREVIOUS YEAR	R NTSE QUEST	IONS
41.			everse order, then v	which will be 12th letter to the
		r from your right?		
		HIJKLMNOPQI		(D) W
40	(A) X	(B) U	(C) Y	(D) W
42.	second and 10th	h letters and so on wh	nich would be the 7	Were interchanged, also the
	(A) R	(B) B	(C) A	(D) U
Direc		Read the data carefu	lly and answer the	questions.
4.0	LAP BUT CA			
43.				of the word are interchanged, ith the new arrangement?
	(A) HID	(B) SON	(C) TUB	(D) CAR
44.	from the left to	ords are arranged in right, which of the fo	llowing will be 4th fr	would appear in a dictionary com the left?
	(A) LAP	(B) BUT	(C) CAR	(D) SON
45.	=	t is one same place in	=	-
	(A) U	(B) I	(C) A	(D) N
46.	alphabetical or	der, how many words	having no vowels v	
	(A) One	(B) Two	(C) Three	(D) More than three
47.	the order of the	e letters and using eac	ch letter only once?	
4.0	(A) 2	(B) 3	(C) 4	(D) 5
48.	the order of the	e letters and using eac	ch letter only once?	
	(A) Five	(B) One	(C) Two	(D) Three
49.	changing the o	rder of the letters and	l using each letter o	_
	(A) Five	(B) One	(C) Two	(D) Three
50.		d 'BEHIND' how marder of the letters and		vords can be made without only once?
	(A) 1	(B) 2	(C) 3	(D) 4

20

Logical Order

Logical Order

In such type of question, some words are given. The candidates is asked to arrange these words in a meaningful order. The order may be according to the age, size and need etc.

Examples

1. Arrange the following words in a meaningful order:

1. Death

2. Marriage

3. Education

4. Birth

5. Funeral

(A) 5, 1, 2, 3, 4

(B) 4, 2, 3, 1, 5

(C) 4, 3, 2, 5, 1

(D) 4, 3, 2, 1, 5

Solution

(D) First of all a man is born then he takes education; after this he is married. Then after some times he dies. After death the order is of Funeral. So correct order is 4, 3, 2, 1 and 5

2. Arrange the following words in a meaningful order

1. Doctor

2. Illness

3 Medicine

4. Medical hall

5. Consultation

(A) 2, 1, 5, 4, 3

(B) 3, 4, 5, 1, 2

(C) 2, 1, 5, 3, 4

(D) 4, 3, 5, 1, 2

Solution

(C) We know 'Illness' occurs first. Then the patients goes to 'Doctor' and after 'Consultation' 'Medicine' is prescribed. Then he goes to take medicine from a 'Medical Hall'

Hence correct meaningful order is

Illness, Doctor, Consultation, Medicine, Medical Hall

ASSIGNMENT-1

Directions: Arrange the words given below in a meaningful sequence

1. 1. Quench

2. Thirsty

3. Man

4. Well

5. Water

(A) 1, 3, 4, 5, 2

(B) 2, 3, 5, 4, 1 (C) 2, 3, 4, 1, 5

(D) 3, 2, 4, 5, 1

2. 1. Presentation

2. Recommendation

3. Arrival

4. Discussion

5. Introduction

0

(A) 5, 3, 4, 1, 2

(B) 3, 5, 4, 2, 1 (C) 3, 5, 1, 4, 2

(D) 5, 3, 1, 2, 4

3. 1. Tree

2. Seed

3. Flowers

4. Fruit

5. Plant

4.	(A) 1.	5, 2, 1, 3, 4 Protect	(B) 2.		(C) 3.	2, 5, 1, 3, 4 Relief	(D) 4.	2, 5, 3, 1, 4 Rain
1,	5.	Flood	۷٠	Tiessaie	0.	Reflet	١.	Rain
		2, 4, 3, 1, 4	(B)	2 4 5 1 3	(C)	2, 5, 4, 1, 3	(D)	3, 2, 4, 5, 1
5.	1.	Income	2.			Education	` '	Well being
٥.	5.	Job		Status	٠.		••	022 00228
			(B)	1, 3, 2, 5, 4	(C)	1, 2, 5, 3, 4	(D)	3, 5, 1, 2, 4
6.	1.	Heel		Shoulder	3.	Skull	4.	Neck
	5.	Knee		Chest	7.	Thigh	8.	Stomach
	9.	Face		Hand		S		
	(A)	3, 4, 7, 9, 2, 5, 8,	10, 6	5, 1	(B)	3, 9, 4, 2, 10, 6	, 8,	7, 5, 1
	(C)	2, 4, 7, 10, 1, 5, 8	, 9, 6	5, 3	(D)	4, 7, 10, 1, 9, 6	, 2,	5, 8, 3
7.	1.	Rainbow	2.	Rain	3.	Sun	4.	Нарру
	5.	Child						
	(A)	4, 2, 3, 5, 1	(B)	2, 3, 1, 5, 4	(C)	4, 5, 1, 23	(D)	2, 1, 4, 5, 3
8.	1.	Never	2.	Sometimes	3.	Generally	4.	Seldom
	5.	Always						
	(A)	5, 2, 1, 3, 4	(B)	5, 2, 4, 3, 1	(C)	5, 3, 2, 1, 4	(D)	5, 3, 2, 4, 1
9.	1.	Index	2.	Contents	3.	Title	4.	Chapters
	5.	Introduction						
	(A)	2, 3, 4, 5, 1	(B)	3, 2, 5, 1, 4	(C)	3, 2, 5, 4, 1	(D)	5, 1, 4, 2, 3
10.	1.	Chew	2.	Relish	3.	Pizza	4.	Digest
	5.	Teeth						
	(A)	1, 2, 5, 3, 4	(B)	1, 3, 2, 5, 4	(C)	3, 1, 5, 2, 4	(D)	3, 5, 1, 2, 4
11.	1.	Table	2.	Tree	3.	Wood	4.	Seed
	5.	Plant						
	(A)	1, 2, 3, 4, 5				4, 5, 2, 3, 1		4, 5, 3, 2, 1
12.	1.	Window		Walls	3.	Floor	4.	Foundation
	5.	Roof	6.	Room	_			
		4, 1, 5, 6, 2, 3						
1.0		4, 3, 5, 6, 2, 1				D	4	***
13.	1.		2.	Cocoon				Worm
1 /		1, 3, 4, 2				2, 4, 1, 3	. ,	3, 4, 2, 1
14.	1.	Rain	2.	Monsoon	3.	Rescue	4.	Flood
	5.		6.	Relief	(D)	104526		
		1, 2, 3, 4, 5, 6 2, 1, 4, 3, 5, 6				1, 2, 4, 5, 3, 6 4, 1, 2, 3, 5, 6		
15.	. ,		2	Sun	` ,	4, 1, 2, 3, 3, 0 Moon	4.	Earth
10.	1. 5.	Milky way Stars	2.	Sun	J.	1410011	⊣.	Dai III
			(B)	23451	(C)	3, 4, 2, 5, 1	(D)	43251
16.	(A)	Grass		2, 3, 4, 3, 1 Curd				4, 3, 2, 3, 1 Cow
10.	5.	Butter	۵.	Julu	٥.	1,1111	٠.	JUN
	٠.	_ 4001						

5. Paper

		1, 2, 3, 4, 5	(B)	2, 3, 4, 5, 1		4, 1, 3, 2, 5		
17.		Foetus	2.	Child	3.	Baby	4.	Adult
		Youth						
	(A)	1, 2, 4, 3, 5	(B)	1, 3, 2, 5, 4	(C)	2, 3, 5, 4, 1	(D)	5, 4, 2, 3, 1
18.	1.		2.	Rivulet	3.	Ocean	4.	River
	5.	Glacier						
	(A)	5, 2, 1, 3, 4	(B)	5, 2, 4, 1, 3	(C)	5, 4, 2, 3, 1	(D)	5, 4, 3, 2, 1
19.	1.	Doctor	2.	Fever	3.	Prescribe	4.	Diagnose
	5.	Medicine						
	(A)	1, 4, 3, 2, 5	(B)	2, 1, 4, 3, 5	(C)	2, 1, 4, 3, 5	(D)	2, 4, 3, 5, 1
20.	1.	Reading	2.	Composing	3.	Writing	4.	Printing
	(A)	1, 3, 2, 4	(B)	2, 3, 4, 1	(C)	3, 1, 2, 4	(D)	3, 2, 4, 1
				ASSIGNN	1EN	IT-2		
21.	1.	Hecto	2.	Centi	3.	Deca	4.	Kilo
	5.	Deci						
	(A)	1, 3, 4, 5, 2	(B)	1, 5, 3, 4, 2	(C)	2, 5, 3, 1, 4	(D)	5, 2, 1, 4, 3
22.	1.	Honey	2.	Flower	3.	Bee	4.	Wax
	(A)	1, 3, 4, 2	(B)	2, 1, 4, 3	(C)	2, 3, 1, 4	(D)	4, 3, 2, 1
23.	1.	Country	2.	Furniture	3.	Forest	4.	Wood
	5.	Trees						
	(A)	1, 3, 5, 4, 2	(B)	1, 4, 3, 2, 5	(C)	2, 4, 3, 1, 5	(D)	5, 2, 3, 1, 4
24.	1.	Site	2.	Plan	3.	Rent	4.	Money
	5.	Building	6.	Construction	1			
	(A)	1, 2, 3, 6, 5, 4			(B)	2, 3, 6, 5, 1, 4		
	(C)	3, 4, 2, 6, 5, 1			(D)	4, 1, 2, 6, 53		
25.	1.	District	2.	Village	3.	State	4.	Town
	5.	City						
	(A)	2, 4, 1, 5, 3	(B)	2, 1, 4, 5, 3	(C)	5, 3, 2, 1, 4	(D)	2, 5, 3, 4, 1
26.	1.	Cutting	2.	Dish	3.	Vegetable	4.	Market
	5.	Cooking						
	(A)	1, 2, 4, 5, 3	(B)	3, 2, 5, 1, 4	(C)	4, 3, 1, 5, 2	(D)	5, 3, 2, 1, 4
27.	1.	Patient	2.	Diagnosis	3.	Bill	4.	Doctor
	5.	Treatment						
	(A)	1, 4, 2, 3, 5	(B)	1, 4, 3, 2, 5	(C)	1, 4, 2, 5, 3	(D)	4, 1, 2, 3, 5
28.		Study	2.	Job	3.	Examination	4.	Earn
	5.	Apply						
	(A)	1, 3, 2, 5, 4	(B)	1, 2, 3, 4, 5	(C)	1, 3, 5, 2, 4	(D)	1, 3, 5, 4, 2
29.	1.	Atomic Age	2.	Metallic Age	3.	Stone Age	4.	Alloy Age
	(A)	1, 3, 4, 2	(B)	2, 3, 1, 4		3, 2, 4, 1	(D)	4, 3, 2, 1
30.	1.	Book	2.	Pulp	3.	Timber	4.	Jungle
	_	D						

Mental Ability Test

31.	1. \$		(B) 2.	3, 2, 5, 1, 4 Chapter		4, 3, 2, 5, 1 Letter	(D) 4.	5, 4, 3, 1, 2 Book
32.	(C) 4	3, 2, 1, 5, 4 4, 1, 2, 3, 5 Puberty	2.	Adulthood		4, 2, 1, 5, 3 4, 2, 5, 1, 3 Childhood	4.	Infancy
		Senescence 2, 4, 6, 3, 1, 5	6.	Adolescence	(B)	4, 3, 1, 6, 2, 5		
33.	1. I	4, 3, 6, 2, 1, 5 Mother Smile	2.	Child	(D) 3.	5, 6, 2, 3, 4, 1 Milk	4.	Cry
34.	(A) 1		` '	2, 4, 1, 3, 5 Letter	` '	2, 4, 3, 1, 5 Envelope	(D) 4.	3, 2, 1, 5, 4 Delivery
25	(A) 2			3, 2, 1, 4, 5			` ,	3, 2, 4, 5, 1
35.	5. I	Consultation Recovery 2, 3, 1, 4, 5	2. (B)	Illness 2, 3, 4, 1, 5	3. (C)	Doctor 4, 3, 1, 2, 5	4. (D)	Treatment 5, 1, 4, 3, 2
36.	1. I		2.			Ambivalence	4.	Ecstasy
37.	1. I	Elephant		3, 2, 5, 1, 4 Cat	(C) 3.	2, 1, 3, 4, 5 Mosquito	(D) 4.	1, 4, 2, 5, 3 Tiger
38.				1, 3, 5, 4, 2 Plan	(C) 3.	3, 2, 4, 1, 5 Rent	(D) 4.	2, 5, 1, 4, 3 Money
	(A) 2					1, 2, 3, 5, 4		
39.	5. 8	Mother Smile 3, 2, 1, 5, 4				Milk		Cry
40.	1. I		` '		` '	Arrest	. ,	Crime
	(A) 4	4, 3, 5, 2, 1	(B)	4, 3, 5, 1, 2	(C)	2, 3, 1, 4, 5	(D)	5, 1, 2, 3, 4

PREVIOUS YEAR NTSE QUESTIONS

Direction (41 to 45) Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence from the options.

41. (I) Cloth (II) Cinema (III) Chronic (IV) Christmas (V) Create (A) (IV), (III), (II), (I), (V) (B) (I), (II), (III), (IV), (V) (C) (IV), (II), (III), (V), (I) (D) (IV), (II), (III), (I), (V) 42. (I) Dialogue (II) Diagram (III) Diameter (VI) Diagnose (V) Dial (A) (IV), (II), (V), (I), (III) (B) (II), (IV), (V), (I), (III)

(C) 3, 1, 2, 8, 7, 4, 5, 6

	(C) (I), (IV), (II), (V), (III)	(D) (I), (II), (III), (IV), (V)
43.	(I) Navigate (II) National (I	II) Naughty (IV) Nation (V) Narrow
	(A) (V), (IV), (III), (II), (I)	(B) (V), (IV), (II), (III), (I)
	(C) (I), (II), (III), (IV), (V)	(D) (V), (II), (III), (IV), (I)
44.	(I) Peerless (II) Penal (I	III) Petroleum (IV) Pedestrian (V) Pharmacy
	(A) (IV), (I), (II), (V), (III)	(B) (I), (II), (V), (IV), (III)
	(C) (IV), (I), (II), (III), (V)	(D) (IV), (I), (V), (III), (II)
45.	(I) Unstable (II) Unship	(III) Unsafe (IV) Unseat (V) Unshared
	(A) (I), (III), (II), (IV), (V)	(B)(III), (IV), (V), (II), (I)
	(C) (I), (IV), (V), (II), (III)	(D) (V), (IV), (III), (II), (I)
	etion (46 to 50) Select the dingly will form a meaningful	combination of numbers so that letters arranged
46.	BLIPUSH	
	1 2 3 4 5 6 7	
	(A) 4, 5, 1, 2, 6, 3, 7	(B) 4, 5, 3, 2, 1, 6, 7
	(C) 1, 2, 3, 4, 6, 6, 7	(D) 4, 5, 1, 2, 3, 6, 7
47.	HLRAOCS	
	1 2 3 4 5 6 7	
	(A) 1, 2, 3, 4, 5, 6, 7	(B) 7, 6, 5, 1, 4, 2, 3
	(C) 7, 6, 1, 5, 2, 4, 3	(D) 7, 6, 5, 1, 2, 4, 3
48.	IKESRT	
	1 2 3 4 5 6	
	(A) 6, 4, 5, 1, 2, 3	(B) 4, 6, 5, 1, 2, 3
	(C) 6, 5, 4, 3, 2, 1	(D) 1, 2, 3, 4, 5, 6
49.	MBLALRUE	
	1 2 3 4 5 6 7 8	
	(A) 7, 1, 2, 6, 8, 3, 5, 4	(B) 1, 2, 3, 4, 5, 6, 7, 8
	(C) 8, 7, 2, 1, 4, 5, 3, 6	(D) 1, 2, 3, 6, 7, 8,4, 5
50.	RGOSIEAN	
	1 2 3 4 5 6 7 8	
	(A) 3, 8, 7, 4,5, 6, 1,2	(B)3, 2, 1, 5, 8, 7, 4,6

(D) 3, 1, 2, 7, 8, 5, 4, 6

21

Arithmetical Reasoning

Arithmetical Reasoning

In this chapter the question based on age, diagrams venn diagrams and general calculation etc. are asked. Hence thorough knowledge of Arithmetic and Algebra etc is essential.

Examples

1.	In a group of dogs and crows the number of legs is more than 2 times the number of
heads 1	by 20. What is the number of dogs?

(A) 10

(B) 20

(C) 25

(D) 33

Solution

(A)

Let the no. of dogs be x and that of crows be y.

 \therefore Total number of legs = 4x+2y

And total number of heads = x+y

 \therefore 4x+2y = 2(x+y)+20

 \Rightarrow 4x+2y = 2x+2y +20

 \Rightarrow 4x+2y-2x-2y = 20

 \Rightarrow 2x=20

 $\therefore \qquad x = \frac{20}{2} = 10$

ASSIGNMENT-1

1.	In a caravan in	addition to	50 hens	are there	are 45	horses	s and 8 c	amels w	<i>r</i> ith some
	keepers. If the	total number	r of feet	are 224	more	than th	he heads	in the	caravan,
	what is the num	nber of keepe	ers?						

(A) 8

(B) 15

(C) 12

(D) 10

2. In a tennis tournament each of six players will play with every other player exactly once. How many matches will be played during the tournament?

(A) 12

(B) 30

(C) 36

(D) 15

3. A monkey is trying to reach the top of a pole which is 30 metres high from the ground. After climbing every 4 metres it slips down 2 metres. How many attempts will it take to reach the top of the pole?

(A) 14

(B) 15

(C) 17

(D) 16

4. Initially A has ₹ 10 more than B. A gives one half of his money to B. B reciprocates and gives only half of his money to A. Now A has ₹ 20 more than B. How much money do A and B have total in the beginning?

	(A) 70	(B) 80	(C) 90	(D) 120			
5.		18, the result is the		es digits by 3. If the number is aber formed by reversing the			
	(A) 35	(B) 57	(C) 49	(D) 42			
6.				thers; but her brothers Rohan any children are there in the			
	(A) 7	(B) 6	(C) 5	(D) 8			
7.	have duration	_	erval of 5 minutes is	g. Every round of music will s given after every five rounds ame?			
	(A) 47 min	(B) 45 min	(C) 35 min	(D) 40 min			
8.	mark for every		attempts all 75 que	y correct answer and loses 1 stions and scores 125 marks			
	(A) 35	(B) 42	(C) 46	(D) 40			
9.		ws but six, all pigeon		the bag. He replied that there ucks but six. How many birds			
	(A) 9	(B) 18	(C) 27	(D) 19			
10.				boxes contains three smalleres are there altogether?			
	(A) 39	(B) 40	(C) 42	(D) 41			
11.	In a cricket match, five batsman A, B, C, D and E scored an average of 36 runs, D scored 5 more than E, E scored 8 fewer than A, B scored as many as D and E combined, Band C scored 107 between them. How many runs did E score?						
	(A) 62	(B) 45	(C) 36	(D) 20			
12.	In a class ther	e are 18 boys, who a	are over 175 cm tal	1. If these constitute $\frac{3}{4}$ of the			
	boys and the total number of boys is $\frac{2}{3}$ of the total number of students in the class,						
	what is the nu	mber of girls in the cl	ass?				
	(A) 6	(B) 9	(C) 18	(D) 12			
13.	How many rev distance of 880		heel of 28 cm in o	liameter make in travelling a			
	(A) 100	(B) 88	(C) 50	(D) 10			
14.	new fraction is denominator.	s formed by subtract	ting 2 from the nu en the original frac	ion are in the ratio of 1 : 5. A merator and adding 5 to the ction and the new fraction is			
	(A) 25	(B) 4	(C) 20	(D) 5			
15.	and daughter a	got half the property	sharing in the ratio	ighter, and a servant. His son of 4:3, if his wife got twice as What is the value of entire			
	(A) 3500	(B) 7000	(C) 10500	(D) 14000			

16. There are three strings of different lengths, which together is 35 cm. The							
	$\frac{2}{3}$ of the middle one, which is $\frac{4}{5}$ of the longest string. What is the length of the						
	longest string?						
	(A) 12 cm	(B) 22 cm	(C)	24 cm	(D) 15 cm		
17.	Anil has $\frac{2}{3}$ as much	h money as Sunil l	has a	nd Sunil has 1-	$\frac{1}{2}$ times as much money		
	as Pravin has. If Pra	avin has _{Rs.} 180, h	ow m	uch money does	Anil have?		
	(A) 360	(B) 180	(C)	90	(D) 60		
18.	In a college union election only two candidates contested. A candidate secures 41% of the votes, but is defeated by other candidate by 1440 votes. Totally, how many students did cast their votes?						
	(A) 2880	(B) 4320	(C)	8000	(D) 5600		
19.		f the remainder an			% of the remainder. Next est. What percent of his		
	(A) 24	(B) 30	(C)	36	(D) 40		
20.	To number the page pages did the book		edia t	he printer used	2989 digits. How many		
	(A) 924	(B) 1024	(C)	1089	(D) 1009		
		ASSIGN	MEN	IΤ-2			
	1						
21.	Ashok spends $\frac{1}{8}$	of the money for n	nango	pes and $\frac{1}{7}$ of the	ne remaining money for		
	sweets. With the leftover money he goes to a bakery and spends $\frac{1}{6}$ of the money to						
	buy bread for his father, and with the remaining money he spends $\frac{1}{5}$ and buys						
					buys a cricket ball by		
	spending $\frac{1}{4}$ of the a	amount. Now he is l	eft ₹	48. How much	money did Ashok have in		
	the beginning?						
	(A) ₹90	(B) ₹80	(C)	₹128	(D) ₹112		
22.	of the owners are o	n the back of their camels. If the num	came	els, while the ren	re going somewhere. Half naining ones are walking n the ground is 70, how		
	(A) 12	(B) 14	(C)	16	(D) 10		
23.	Two poles X and Y each of 16 cm high are placed parallel to each other on a plan ground. Frog A is positioned at the top of pole X, whereas frog B is positioned at the ground level near the pole Y. Frog A comes 2 cm down the pole X during the daytime and goes up 1 cm during the night every day, whereas frog B goes up 2 cm up the pole Y during the day and slips down 1 cm during the night every day. After how many days will the two frogs be at the same height above the ground level?						
	(A) 7	(B) $6\frac{1}{2}$	(C)	$7\frac{1}{2}$	(D) 9		

24.	Ashok working in a bank can claim ₹15 for each kilometer which he travels by ta and ₹5 for each kilometer when he goes in his own car. If Ashok claims ₹500 in week for traveling 80 km, how many km, did he travel by taxi?							
	(A) 10 km	(B) 15 km	(C)	30 km	(D) 40 km			
25.	celebrations. Fo		here is		students joined for New Year sor. What is the total number			
	(A) 75	(B) 80	(C)	70	(D) 65			
26.	In a bundle of 154 shirts, there are three less white shirts than red shirts, and fix more white shirts than green shirts. How many red shirts are there?							
	(A) 52	(B) 55	(C)	40	(D) 47			
27.	_	A monkey ate 100 idlis in 5 days, each day eating six more than the previous day. How many did it eat on the last day?						
	(A) 23	(B) 26	(C)	35	(D) 32			
28.	_			_	fined ₹ 50 on the day of his many days was he absent.			
	(A) 12	(B) 6	(C)	8	(D) 4			
29.	as many Diary	milk as there are Am	ul cho	colates. If t	s many 5 stars and five times the cost of each Amul, 5 star could be the cost of box of			
	(A) Rs.300	(B) Rs.260	(C)	Rs.340	(D) Rs. 400			
30.	a:b:c::2:4 their squares?	: 3. Find the ratio of	of the s	square of th	neir average to the average of			
	(A) 8:3	(B) 27:29	(C)	23:25	(D) 25:27			
31.		100 on articles worth es worth ₹3 has Ami			3 each. If he buys 42 articles,			
	(A) 13	(B) 14	(C)	16	(D) 26			
32.	other at the sar		overs 4	4 km/hr an	start travelling towards each d the women 3 km/hr, how			
	(A) 35 km	(B) 36 km	(C)	21 km	(D) 27 km			
33.	There are four men of different heights. The fourth man is the tallest and the first man is the shortest. If the difference in heights among the first three men was 2 in and the difference between the third and the fourth man was 6 in and the average height of all the four men was 74 in, how tall was the fourth man?							
	(A) 78 in	(B) 80 in	(C)	70 in	(D) 74 in			
34.		um up to given 310. is the smallest numbe		are in the	ratio of 3:2:1/5:1, which			
	(A) 10	(B) 62	(C)	150	(D) 31			
35.	Both of them sta	art from the same points 5 min to complete o	nt at 7	:00 AM. A c	track in the same direction. ompletes one round in 4 min, it time do A and B cross each			
	(A) 7:15 AM	(B) 7:20 AM	(C)	7:30 AM	(D) 7:40 A<			
36.	same time. P was direction. P con	alks in the clockwise on the clockwise of the country in the clockwise of	direction	on, whereas hour. Q c	track from same point at the Q walks in the anticlockwise completes five rounds in one oth of them walk for 40 min?			

	(A) 3 times	(B) 4 times	(C) 6 times	(D) 8 times		
37.	reach another po		n east and swims	dge, swims 600 m North to 800 m to reach yet another		
	(A) 600 m	(B) 700 m	(C) 800 m	(D) 1000 m		
38.	gives me ₹ 40, tl		will have the same	much as Sunil, but if Sunil e amount. What is the total		
	(A) ₹240	(B) ₹360	(C) ₹420	(D) ₹396		
39.	returned home fr	om school by walkin	ng at an average s _l	age speed of 15 km/hr. She peed of 5 km/hr. What was route in both directions?		
	(A) 7.5 km/hr	(B) 10 km/hr	(C) 12.5 km/hr	(D) 13 km/hr		
40.	that is 10% more		fuel supplied. If the	which shows false reading e dealer buys petrol at ₹ 25 ge gain?		
	(A) 20%	(B) $16\frac{2}{3}\%$	(C) $34\frac{1}{3}\%$	(D) 32%		
	P	REVIOUS YEAR	NTSE QUESTIO	ONS		
41.	2 mangoes = 6 ap bananas are avail		anas, so instead of	buying 1 mango, how many		
	(A) 12	(B) 24	(C) 6	(D) 8		
42.		meeting, the ten per nandshakes will the		ake hands with each other		
	(A) 10	(B) 45	(C) 9	(D) 25		
43.	A person starts from a point A and travels 6 km westwards to B and then turn and travels half of that distance to reach C. He again turns right and trave times the distance he covered between A and B and D. The shortest dibetween the starting point and the last position is (in km).					
	(A) $\sqrt{60}$	(B) $\sqrt{80}$	(C) $\sqrt{90}$	(D) $\sqrt{75}$		
44.	A total of 380 conumber of 50 pair	=	d 50 paise coins m	nake a sum of Rs 130. The		
	(A) 140	(B) 180	(C) 120	(D) 110		
45.	The unit digit of (168) ¹⁵⁶ is:				
	(A) 8	(B) 6	(C) 4	(D) 2		
46.	and some studen	ts can speak only the number of stude	Tamil. Fifteen stud	nts can speak only English lents can speak both Tamil ak English is 20, then how		
	(A) 35	(B) 20	(C) 27	(D) 37		
47.				e children are literate. If the ne percent of the population		
	(Δ) 13 75	(B) 55	(C) 30	(D) none of these		

48.

The average age of three persons is 12 year. Their ages are in the proportion of 1:3:5 What is the age in years of the youngest one among them

	(A) 4	(B) 12	(C) 9	(D) 8
49.	13 sheep's and 9 pigs Rs,74 What is the ave			erage price of a sheep be
	(A) 34.65	(B) 48.40	(C) 52.85	(D) 36.65
50.	What is the sum of th	ne first 25 natural	odd numbers?	
	(A) 225	(B) 425	(C) 625	(D) 525

22

Alphabet Test

Alphabet Test

In the alphabet test words are arranged in alphabetical order according to dictionary letter a, b, c,to z. Mean a letter will come first and z will come last. This alphabet test will happen in words too

Examples

1. (A) Arise (B) Arose (C) Artistic (D) Arrange

Solution

(A)

Given four words, all starting with A so we will see the second letter it is also same then we will see the third letter I will come first so word Arise will be first in dictionary second word will be Arose and the third will be Artistic and fourth will be Arrange.

ASSIGNMENT-1

Direction (1 to 20): Arrange the given words in the alphabetical order and point the one that comes first.

1. (A) Project (B) Property (C) Page (D) Paper 2. (A) Render (B) Reciprocate (C) Reply (D) Revive 3. (A) Mint (B) Mount (C) Mass (D) Man 4. (A) Cotton (B) Citra (C) Cot (D) Cattle 5. (A) Ass (B) Acid (C) Ask (D) After 6. (A) Character (B) Champion (C) Coagulate (D) Compassion 7. (A) Irritate (B) International (C) Intimidate (D) Invert 8. (A) Rubbish (B) Rotary (C) Roit (D) Rope 9. (A) Nimble (B) Negative (C) Nostalgia (D) Negligence 10. (A) Temperature (D) Taxation (B) Telescope (C) Taxi 11. (A) Liquidity (B) Limit (C) Liquor (D) Lime

12.	(A) Exit	(B) Execute	(C) Excitement	(D)	Exile
13.	(A) Trick	(B) Terminat	e (C) Tidy	(D)	Tarnish
14.	(A) Grammar	(B) Glitter	(C) Genetic	(D)	Gradient
15.	(A) Reliable	(B) Represen	t (C) Recourse	(D)	Resource
16.	(A) Heredity	(B) Hesitate	(C) Hire	(D)	Horse
17.	(A) Cram	(B) Carriage	(C) Crab	(D)	Crown
18.	(A) Neglect	(B) Narrate	(C) Noun	(D)	Night
19.	(A) Entry	(B) Emblem	(C) Energy	(D)	Enumeration
20.	(A) Apply	(B) Apple	(C) Appreciate	(D)	Appropriate

ASSIGNMENT-2

 $\it Directions$ (21-40): In each of the following Questions, find which one word cannot be made from the letters of the given word.

21.	ENTHUSIASTICALL	LY			
	(A) SATIATE	(B) HELMINTH	(C)	SHALE	(D) TANTALUS
22.	CONCENTRATE				
	(A) CENTRE	(B) CONCERN	(C)	REASON	(D) TREAT
23.	INTRANSIGENT				
	(A) STAIN	(B) GRATE	(C)	TRACE	(D) RESIGN
24.	MAGNETIC POLE				
	(A) MENACE	(B) POLEMIC	(C)	REGISTER	(D) GENIAL
25.	PERPETUATION				
	(A) REPUTE	(B) RETAIN	(C)	PIPETTE	(D) PENANCE
26.	ESTRANGEMENT				
	(A) ENTANGLE	(B) ENTREAT	(C)	GERMAN	(D) TANGENT
27.	CLASSIFICATION				
	(A) FICTION	(B) ACTION	(C)	NATION	(D) LIAISON
28.	PHOTOSYNTHETIC				
	(A) THOSE	(B) SCENT	(C)	PRONE	(D) COTTON
29.	QUESTIONNAIRE				
	(A) QUESTOR	(B) QUEUE	(C)	QUINATE	(D) QUERIES
30.	FLEXIGERATOR				
	(A) TAXI	(B) GREATER	(C)	LARGER	(D) XEROX
31.	PARAPHERNALIA				
	(A) RENAL	(B) PRAISE	(C)	RAPHAEL	(D) PEAR
32.	CHOREOGRAPHY				
	(A) OGRE	(B) PHOTOGRAPH	Y(C)	GRAPH	(D) GEOGRAPHY
33.	PHARMACEUTICAI				
	(A) PRACTICE	(B) METRIC	(C)	RHEUMATIC	(D) CRITICAL
34.	DISSEMINATION				
	(A) INDIA	(B) NATIONS	(C)	MENTION	(D) ACTION

35.	COMMENTATOR				
	(A) TART	(B) COMMON	(C)	MOMENTS	(D) COSMOS
36.	CARPENTER				
	(A) NECTAR	(B) CARPET	(C)	PAINTER	(D) REPENT
37.	TRIBUNAL				
	(A) LATIN	(B) BRAIN	(C)	URBAN	(D) TRIBLE
38.	TEMPERAMENT	(D) DD#DD	(0)	mp.v.mp	(D) WDGWDD
20	(A) METER	(B) PETER	(C)	TENTR	(D) TESTER
39.	CONTEMPORARY (A) PARROT	(B) COMPANY	(C)	CARPENTER	(D) PRAYER
40.	ENDEAVOUR	(b) COMPANT	(C)	CARPENTER	(D) FRATER
10.	(A) DROVE	(B) DEVOUR	(C)	DROWN	(D) ROUND
	(II) DROVE	(B) BEVOOR	(0)	DROWN	(D) ROOND
	PR	REVIOUS YEAR	NTS	E QUESTION	ıs
4.1				•	
41.		.3 -14 and JUNK =1			
40	(A) 9 – 10- 11-12	,	(C)	11- 12-10 -9	(D)12-10-14-9
42.	If WORK = 4 -12-9-		0(0)	00 10 06 14 1	0 (D) 00 15 10 4 14
D: /	(A) 4-12-14-16-13	, ,	` '		.3 (D) 23-15-13-4-14
	fion (43 to 44) : Yo follows the given rul		ets i	rom A to Z Fin	d out which of the letter
43.	Rule. The letters ar	e not according to a	gene	eral rule.	
	(A) CEGIKM	(B) MORTVX	(C)	PRTVXZ	(D) ACEGIK
44.	Rule: Number of let	tters skipped in bety	ween	adjacent letter i	n the series is odd
	(A) EIMQV	(B) FIMRX	(C)	BDHLR	(D) MPRUX
45.	If the following word be the second word		cordir	ng to the diction	ary order then which will
	(A) Expound	(B) Exposure	(C)	Expulsion	(D) Expose
46.	letters of the word it is possible to ma	SCCENTRICITY the	n wh world	ich will be the t l then answer v	th, seventh and eleventh hird letter of the word? If vill be M and if the world
	(A) X	(B) R	(C)	N	(D) M
47.		irs of letters are the en them as in the E			DRS' each of which has as s:
	(A) None	(B) One	(C)	Two	(D) Three
48.	Arrange the following	ng according to dict	ionar	y and determine	e the one at 4^{th} place.
	(A) Zamaica	(B) Zidane	(C)	Zeast	(D) Zinedine
49.		arranged according			, INTERROGATION and which will be the fourth
	(A) O	(B) A	(C)	R	(D) T
50.	Which name will conames?	ome at 3 rd place in	a tele	phone directory	r from the following given
	(A) AMIT	(B) AMINA	(C)	ALOK	(D) ABHIMAN

23

Analytical Reasoning

Analytical Reasoning

In this type of questions some persons or things are given with some information. Out of which something is asked. The candidate for this, should arrange the items according to the given information and then form the chart he should find the answer.

The questions may be of many types. These types are explained in this chapter one by one.

Example

- 1. (i) P, Q, R R, S and T are sitting in a closed circle facing the centre.
 - (ii) R is just left of T.
 - (iii) P is between S and T.

Then who is just left to R?

(A) T

(B) P

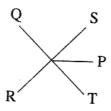
(C) Q

(D) S

Solution:

(C) This seating arrangement is shown in the diagram.

Hence Q is just left of R.



ASSIGNMENT - 1

Directions (1-5): Study the following information carefully and answer the following question given below it:

- (i) A, B, C, D, E, F and G are seven members of the family
- (ii) Six of them have a difference profession of Accountant, Lawyer, Teacher, Manager, Doctor, Engineer and one is a student.
- (iii) There are two married couples in the family.
- (iv) A and F's professions are Account and Doctor respectively
- (v) D is the father of B and the grandfather of G and is an Engineer
- (vi) No lady is either an Engineer or a Lawyer.
- (vii)G, who is a student, is the grandson of E.
- 1. How is C related to G?
 - (A) Mother
- (B) Aunt
- (C) Sister
- (D) None of these

2.	What is E's professio	n?			
	(A) Teacher		(B)	Manager	
	(C) Teacher of Manag	ger	(D)	Doctor	
3.	How many male men		he fa	mily?	
	(A) 4	(B) 5	(C)	3	(D) None of these
4.	Which one of the follo	owing is a married	coup	ole	
	(A) BE	(B) BD	_	BD	(D) DE
5.	How is F related to G	?	` ,		
	(A) Brother	(B) Sister	(C)	Uncle	(D) None of these
Direct below:	ions (6-10) : Read the	following information	tion (carefully and ans	swer the questions given
	(i) Six person P, Q, I	R, S, T and U are si	itting	g in two rows, thr	ee in each
	(ii) T is not at the end			,	
	(iii) S is second to the	•			
	(iv) R is the neighbor		onal	ly opposite to S	
	(v) Q is the neighbor		,01141	ly opposite to S.	
6.	Which of the followin		allv	onnosite to each	other
0.	(A) U and R	(B) S and P	_	P and R	(D) P and U
7.	Who is facing Q?	(D) 5 and 1	(0)	1 and 10	(b) I alia o
	(A) P	(B) R	(C)	т	(D) S
8.	Which of the followin	,	` ,	1	(D) 5
0.				P and O	(D) Pand O
0	(A) P and T	(B) T and S	(C)	R and Q	(D) P and Q
9.	Which of the followin		(0)	COLI	(D) DTH
10	(A) UQR	(B) RTQ	(C)	_	(D) PTU
10.	After interchanging in position			_	abours of S in the new
	(A) R and P	(B) U and Q		_	(D) only R
numbe		tively. Exactly five	car	s of five differen	parking slots in a row nt colours blue, green, following conditions:
(a)	The red car must be			J	O .
(b)	The blue car must be	parked in the slot	next	t to slot in which	the white car is parked
(c)	parked	_			hich the maroon car is
11.	If the white car is par			_	st be true?
	(A) The blue car is pa(B) The maroon car is			ne maroon car.	
	(C) The green car is p	-			
	(D) None of the cars i			er 5	
12.	In which of the follow	=			ked?
	(A) 1	(B) 2	(C)	4	(D) 5
13.	If the green car is par			_	
1.4	(A) 1	(B) 3	(C)		(D) 5
14.	Which of the followin (A) There is an empty	=	-	= =	g arrangement?
	(B) There is an empty	•			

	(C) Either the blue car or the white car	is pa	arked in a slot ne	ext t	o 3	
	(D) One of the cars is parked in slot nu	_				
Direct	tions (15-17): The membership of two			Вп	nust be chosen by	а
group	of seven persons Geetha (G), Haritha (H alini (M).		•			
(a)	Each of the seven people must be mem	ber o	f either A or B			
(b)	No one can be member of both clubs si					
(c)	Malini cannot be in a club Geetha or Ja		•			
(d)	Haritha cannot be with Indu	~				
15.	If Haritha is a member of club A, which	of th	ne following mus	t he	tmie2	
10.	(A) Malini is a member of club A		Geetha is a me			
		. ,				
16	(C) Indu is a member of club B	٠,	Lavanya is a m			
16. If Lavanya is not a member in a club with Kavitha or Indu, which of the followin cannot be true?						
	(A) Malini is in a club with Indu	(B)	Geetha is in a o	club	with Haritha	
	(C) Haritha is in a club with Kavitha	(D)	Indu is in a clu	b wi	ith Kavitha	
17.	If exactly two people are members of cluthe two?	ub A,	which of the fol	lowi	ng must be one of	
	(A) Geetha (B) Malini	(C)	Jahanvi	(D)) Kavitha	
Direct	tions (18-20): These questions are based	d on	the following info	orma	ation	
Each o	of eight person A through H likes a diffe	erent	colour among-	Red	, Blue, Black, White	е,
Pink, (Orange, yellow and Indigo. The informati	ion k	nown is			
	(a) A likes neither Red nor Indigo					
	(b) Either B or C likes Yellow					
	(c) E likes either Pink of Indigo					
	(d) Either G or H likes White					
	(e) B likes Black while D does not like	Blue				
	(f) F and G like Pink and Blue in any	order	•			
18.	Who likes Red Colour?					
	(A) B (B) C	(C)	D	(D)	Н	
19.	Which of the following must be true	` '		` '		
	(A) B likes Yellow (B) F likes Pink	: (C)	A likes Orange	(D)	G likes Pink	
20.	What are the colours that A and E like?			()		
			Black, Indigo	(D)	Orange, Indigo	
	ASSIGN	MEN	Т-2			
Direct	tion (21 to 25): These questions are base			forn	nation.	
	C, D, E and F are six persons travelling		_			F
	men and the rest are men. However A, l	_				
	egetarian. Finally, B, E and F know sv					
swim.	Securiari Finany, 2, 2 and 1 mion of	* 111111	mig willie the r		40 1101 1111011 11011	.0
21.	In a group, who is the non vegetarian n	nale s	who does not kn	OW 8	swimming?	
21.						
22	(A) D (B) F	(C)		` ') E	
22.	In a group, who is the non-vegetarian r				_	
	(A) A (B) B	(C)	С	(D)	None of these	
23.	How many of the vegetarian males in the	ne gro	oup known swim	ımin	ıg?	
	(A) None (B) Some	(C)	All	(D)) Can't say	
24.	In the group who is the vegetarian fema	ale w	ho knows swimn	ning	5	
	(A) C (B) B	(C)		_) F	
25.	In the group who is the only female wh			` '		
40.	in the group who is the only lemate wi	10 u0	CS HOLKHOW SWII	111111	.115;	

	(A) A		(B) B	(C)	C	(D) None of these		
Direct	tions (2	26 to 29) : Th	ree brothers Ra	anjit, Sa	ailesh and	Tushar are married to three		
sisters	Archar	na, Bhargavi a	nd Chandrika, b	ut not i	n the same	e order.		
	(a) Ch	andrika has lo	ng hair.					
	(b) The	e dancer (one o	of the sisters) live	es in Go	oa.			
	(c) The	e one married	to Tushar is very	y fair.				
	(d) The sister with long hair does not like to write letters.							
	(e) Archana calls her dancer sister very Sunday.							
	(f) The sister in Pune is married to Tushar.							
	(g) Tu	shar's phone b	oills are high.					
	(h) Sai	ilesh is marrie	d to the dancer.					
	(i) Ch	andrika receiv	es a letter from (Goa offi	ce in a wee	k.		
	(J) The	e sister who do	oes not like to wi	rite lette	ers lives in	Mysore.		
26.	Which	sister lives in	Pune?					
	(A) Arc	chana	(B) Bhargavi	(C)	Chandrika	a (D) Data insufficient		
27.	Who li	ves in Goa?						
	(A) Ra	njit	(B) Sailesh	(C)	Archana	(D) Chandrika		
28.	Who is	Chandrika's l	nusband?					
	(A) Ra	njit	(B) Sailesh	(C)	Tushar	(D) Data incomplete		
29.	Who is	the dancer?						
	(A) Arc	chana		(B)	Bhargavi			
	(C) Ch	andrika		(D)	Cannot be	e determined		
	-	•	_	-		cts F, G, H and I to undertake		
in a gi			the following det	erminat	cions:			
	(I)	F has priority						
	(II) (III)	H has priority		ver ano	ther the i	project with priority must be		
	()		r than the other			project with priority indice so		
30.	Given	only the term	inations above,	each of	the follow	ing is a possible sequence in		
		=	cts could be star			-		
	(A) F, C	G, H, I	(B) F, H, G, I	(C) I	H, F, I, G	(D) H, G, F, I		
31.	If each	of the project	s takes equally l	ong to c	omplete it	must be true that:		
	(A) F is	s completed be	fore H is comple	ted (B) l	H is comple	eted before I is completed		
	(C) F is	s completed be	fore I is complete	ed (D)	H is comple	eted before G is completed		
32.				which tl	ne four pro	jects would have to be started		
	if it we	re determined	that:					
		as priority ove			F has prior			
	` '	nas priority ove		` '	l has priori	•		
33.		of the followir ies initially det	- ·	ional de	terminatio	ns would not conflict with the		
	(A) F h	as priority ove	r I and Hi has pı	riority o	ver G			
	(B) G h	nas priority ove	er H and H has p	oriority (over F			
	(C) G h	nas priority ove	er H and I has pr	riority o	ver F			
	(D) G l	nas priority ove	er I and I has pri	ority ov	er F			
				es –A, B	, C, D and	E of a European corporation		
		conference in						
	(i) A c	onverses in Sp	anish and Italia	n. (ii) I	3 converses	s in Spanish and English.		

45.

	(iii) C converses i French.	n French and Spanis	sh. (iv) E	, a native I	talian can also converse in				
34.		owing, can act as an	interpre	terpreter when C and D wish to confirm?					
	(A) A only		(B) B	only					
	(C) A or B		(D) A:	ny of the oth	ner three executives				
35.	Which of the follo	owing cannot conver	at an interp	reter?					
	(A) B and E	(B) A and B	(C) A	and C	(D) B and D				
36.	Besides E, which	of the following can	convers	e with D wit	hout an interpreter?				
	(A) A, B and C	(B) A only	(C) A	and B	(D) B only				
37.	Of the languages	spoken at this confe	erence, w	hich are the	e two least common?				
	(A) English and S	panish	(B) E	nglish and F	`rench				
	(C) Italian and Sp		` '	nglish and I					
38.	If a sixth executioriginal five, he s	-	be under	stood by th	ne maximum number of the				
	(A) English and F	rench	(B) Ita	alian and Er	nglish				
	(C) French and It	alian	(D) It	alian and Sp	panish				
	stops at stop one leaving the stop	Directions (39 to 40): A loop bus has exactly six stops on its route. The bus first stops at stop one and then at stops two, three, four, five and six in that order. After leaving the stop six, the bus returns to stop one and continues around the loop again. The stops are at six building –G, H, J, K, L and M:							
	(i) L is stop three	_		is stop six.					
	(iii) K is the stop	immediately before I	M. (iv) J	is the stop i	mmediately before G.				
39.	If J is the stop fo	ur, which of the follo	wing mu	ist be the st	op immediately before L?				
	(A) K	(B) M	(C) J		(D) G				
40.	If G is the stop tv	vo, which of the follo	wing mu	ist be the sto	op immediately before H?				
	(A) G	(B) L	(C) K		(D) M				
	1	PREVIOUS YEAR	NTSE	QUESTIC	ons				
Direc	ction (41 to 43) :	Ouestions are bas	sed on t	he informat	tion given below Read the				
inforr alterr	nation carefully an native number of y	d find out the correct your answer sheet a	et answei against t	r from the fo he proper o	our alternative and write its question number- Ramesh,				
	-	•			lass. Ramesh and Abhi like , Hindi with English and				
		rju like Sanskrit and			, imiai with English and				
41.		oted by the most stud							
	(A) Sanskrit	(B) Maths		Hindi	(D) English				
42.	, ,	pted by the least stu	` ,		()				
	(A) Science	(B) Sanskrit	(C) I	English	(D) Hindi				
43.	How many stude	nt opted Sanskrit su	bject						
	(A) 5	(B) 4	(C) 2	2	(D) 3				
Direc	ction (44-46) Read	the following statem	nent care	fully and ar	nswer the questions. Write				
the co	orrect alternative r	iumber on your ansv	ver sheet	t.					
					anesh is 6 year younger to				
	. T.		orn in 19	985. Ramu	is 4 year younger to Satish				
	S year elder to Ume								
44.	(A) Ramesh	ong five brothers? (B) Satish	(C) (Ganesh	(D) Umesh				
	III IXAIIIUSII	ווסווסטו ורדו	ICI V	aurom	ועו טוועטוו				

Who is youngest among five brothers?

	(A) Ramesh	(B) Umesh	(C)	Ganesh	(D) Ramu				
Direct	Direction (46 to 49) Read the information carefully and answer the questions that follow.								
A Blac	ksmith has Five iron a	articles A, B, C, D,	E ea	ch having a diffe	rent weight				
	(i) A weights twice as much as B (ii) B weight four and half times as much as C.								
	(iii) C weights half as	much as D (iv)	D w	eights half as m	uch as E				
	(v) E weights less that	n A but more than	C.						
46.	Which of the followin	ig lightest in weigh	t?						
	(A) A	(B) B	(C)	C	(D) D				
47.	E is lighter than which	ch of the other two	artic	eles.					
	(A) A, B	(B) D, C	(C)	A, C	(D) D, B				
48.	E is heavier than wh	ich of the following	two	articles					
	(A) D, B	(B) D, C	(C)	A, C	(D) A,B				
49.	Which of the followin	g is heaviest in we	ight?	•					
	(A) A	(B) B	(C)	C	(D) D				
Direct	tion (50): Read the fo	llowing information	car	efully and answe	r the questions:				
Ravi a	nd Kunal are good in	hockey and volley	ball	Sachin and Ravi	are good in hockey and				
base b	oall. Gaurav and Kuna	al are good in volle	yball	and Cricket. Sa	chin, Sagar and Gaurav				
are go	od in baseball and foo	tball.							
50.	Who is good in hocke	ey, cricket and Voll	eyba	11?					
	(A) Sachin	(B) Kunal	(C)	Sagar	(D) Ravi				

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Sitting Arrangements

Sitting Arrangements

In such questions, first of all diagram should be made. By doing so questions are easily and quickly solved.

Example (a) 6 boys are sitting in a circle facing towards the centre of the circle.

- (b) Rajeev is sitting to he right of Mohan but he is not just of the left of Vijay.
- (c) Chandar is between Babu and Vijay.
- (d) Ajay is sitting to the left of Vijay.

Who is sitting to the left of Mohan?

Rajeev Mohan

Solution: Ajay

Vijay

Chandar

Hence, Babu is sitting to the left of Mohan.

ASSIGNMENT - 1

Directions (1-3): A, B, C and D are to be seated in a row. But C and D cannot be together. Also B cannot be at the third place from the left.

- 1. Which of the following must be false?
 - (A) A is at the first place
- (B) A is at the second place

(C) A is at third place

- (D) A is at the fourth place
- 2. If A is not at the third place, then C has which of the following option?
 - (A) The first place only
- (B) The third place only
- (C) The first and third place only
- (D) Any of the places
- 3. If A and B are together, then which of the following must be necessarily true?
 - (A) C is not at the first place
- (B) A is at the third place
- (C) D is at the first place
- (D) C is at the first place

Direction (4-8): These questions are based on the following information.

Six friends A, B, C, D E and F are sitting around a circular table as per the following conditions. F is sitting to the left of A. B is sitting between C and E and is opposite to A. E is sitting to the right of D.

- 4. Who is sitting opposite to D?
 - (A) A
- (B) B
- (C) C
- (D) F

- 5. Who is sitting to the left of B?
 - (A) C
- (B) E
- (C) D
- (D) F

6.		interchanges his _l t of F?	place	with the pers	son	sitting opposite	to B,	, then wl	no sits t	o the
	(A)	A	(B)	C	(C)	В	(D)	E		
7.		ch person interch right of C?	ange	s his place w	ith tl	he person oppos	site, 1	then who	o is sitti	ng to
	(A)	E	(B)	В	(C)	A	(D)	F		
8.		interchanges his nen which of the f	_			_	and	B interc	hanges	with
	(A)	A is to the right o	f F							
	(B)	There are two per	sons	sitting betwe	en E	and D				
	(C)	C and D sit oppos	site ea	ach other						
	(D)	E sits to the right	of F							
Direct	ions	(9-15): Select the	corre	ct alternative	from	the given choice	es			
9.	U aı	persons P, Q, R, S nd T is not sitting osite to R. Who is	next	t to R and S.	Q is	s sitting to the i				
	(A)	R	(B)	S	(C)	T	(D)	U		
10.	Eight persons – A, B, C, D, E, F, G, and H are sitting around a circular table. A is sitting opposite to B, C is sitting opposite to D, H is sitting adjacent to B and D and G is sitting to the right of A. If E is sitting to the right of D, then which of the following statements must be true?						and			
	(A)	D is sitting between	en E	and G						
	(B)	E is sitting adjace	nt to	F						
	(C)	(C) F is sitting between B and C								
	(D)	Either E or F is si	tting	opposite to H	I					
11.	follo	en persons – A, E wing manner. C i ng to the left of D.	s sitt	ing between	E aı	nd F. G is sittin	g to	the left	of A, w	ho is
	(A)	F	(B)	C	(C)	D	(D)	E		
Direct	ion (12 to 15) Each o	f thes	se questions a	are b	ased on the info	orma	tion give	n below	r:
		A, B, C, D, E and the left of F. B is		_		_				r. A
12.	Whi	ch of the following	g is si	tting opposite	e to l	E?				
	(A) (C	(B) E	3	(C)	Cannot be dete	ermii	ned	(D)	D
13.	Out	of the five , four p	airs a	alike, Find od	ld or	ne:				
	(A) E	3, D	(B) A	, C	(C)	E, F	(D)) E, A		
14.	Whi	ch of the following	gare	the neighbou	rs A	?				
	(A) F	and A	(B) E	and C	(C)	F and C	(D)) Data in	ıadequa	te
15.	Who	is four person lef	t of E	3 ?						
	(A) A	Λ	(B) F	`	(C)	C	(D)) Data in	ıadequa	te
Direct 16.	Six follo oppo	(16 to 20): These friends – A, B, C wing condition. Fosite to A. E is sittle is sitting opposite.	c, D, is si	E and F are tting to the loothe right of	e sit eft o D.	ting around a of A. B is sitting	circu betv	llar table ween C a	e as per	
	(A)	A	(B)	В	(C)	C	(D)	F		

17.	Who is sitting to the left of B?				
10	(A) C (B) E If F interchange his place with the per	(C)		(D)	
18.	If E interchange his place with the personal right of F?				
19.	(A) A (B) C If each person interchanges his place w	(C)		(D)	
1).	the right of C?	ILII L	ne person oppos	, ,	then who is sitting to
	(A) E (B) B	(C)	A	(D)	F
20.	If A interchanges his place with D, F in			and	B interchanges with
	C, then which of the following statemen	its m	ust be true?		
	(A) A is to the right of F(B) There are two persons sitting between	on E	and D		
	(C) C and D sit opposite each other	CII L	and D		
	(D) E sits to the right of F				
	ASSIGNI	MEN	IT-2		
Direct	tions (21 to 25): These questions are ba				
	Eight boys A, B, C, D, E, F, G and H ar				
	opposite to each other. F is neither ne			G. H	is to the immediate
21.	left of B and opposite G. D is to the imr. Who is to the right of A?	neara	ate fight of b.		
41.	(A) G (B) F	(C)	С	(D)	E
22.	Who is two places to the right of B?	` ,		()	
	(A) C	(B)		_	
02	(C) E		Can not be det	ermi	ned
23.	If F and G interchange places then who (A) C (B) D	1S O		(D)	F
24.	If C is to the immediate right of F, then			٠,	
	(A) A	(B)			
	(C) E	(D)	Can not be det	ermi	ned
25.	Who is opposite to D?	(0)	TT	(D)	D
Direct	(A) E (B) G tions (26 to 30) : These questions are ba	(C)		(D)	
Direct	Four girls – A, B, C and D and four				
	octagonal table. No two boys can sit ad				
	sits to the right of E and opposite to D	. F s	its to the left of	В. С	sits to the left of C,
06	but not next to D.				
26.	B is sitting between (A) F and G (B) E and F	(C)	H and F	(D)	G and D
27.	Who sits to the right of H?	(0)	II dild I	(2)	G dild D
	(A) D (B) C	(C)	В	(D)	A
28.	If A interchanges his place with the pe	ersoi	n who is sitting	opp	osite to C, then who
	sits to the right of F?	(C)	Δ	(D)	C
29.	(A) E (B) B If everybody interchanges his position	(C) with		(D)	
4).	who sits between C and D?	WILLI	the person situ	ing o	pposite to iniii, then
	(A) E (B) F	(C)	G	(D)	Н
30.	Who sits between B and A?				
	(A) E (B) F	(C)	G	(D)	Н
	tions (31 to 35): Study the following inf	orma	ntion carefully a	nd ai	nswer the questions
given l	below it:				
	(i) Eleven students A, B, C, D, E, F, G, facing the teacher	H, I	, J and K are si	tting	in a row of the class
	(ii) D, who is to the immediate left of F,	is s	econd to the righ	nt of	C.
	(iii) A, is second to the right of E, who is				
	(iv) J is the immediate neighbour of A a			e 1eft	of G
	. ,			C ICII	, or a.
	(v) H is to the immediate left of D and t	nırd	to the right of I		

31.	Who is sitting in t	he middle of the row	·5			
	(A) C	(B) I	(C)	В	(D) G	
32.	Which of the follow	wing groups of friend	ls is s	itting to th	he right of G?	
	(A) IBJA	(B) ICHDF	(C)	CHDF	(D) CHDE	
33.	In the above sitting	ng arrangement, whic	ch of t	he followin	ng statement is superfluous?	
	(A) (i)	(B) (ii)	(C)	(iii)	(D) None	
34.	Which of the foldarrangements?	llowing statements	is tru	ue in the	context of the above sitting	ıg
	(A) There are thre	e students sitting be	etween	D and G		
	(B) G and C are n	eighbours sitting to	imme	diate right	of H	
	(C) B is sitting be	tween J and I				
	(D) K is sitting be	tween A and J				
35.		B, A and H and K ar Students is sitting a			e their positions, which of the	
	(A) D and E	(B) E and F	(C)	D and K	(D) K and F	
Direct follow:	ions (36 to 39) : S	Study the given inform	matior	n carefully	and answer the questions tha	at
					and Priya are sitting in a circle equal distance from each other	
forms	an angle of 90° f		n angl	e of 120°	one place right of Amit, Kaml from Manish. Manish is jus	
36.	Gaurav is not sitt	ing at equal distance	es fron	n		
	(A) Rohit and Prit	am	(B)	Amit and	d Kamla	
	(C) Manish and Pa	ritam	(D)	All of the	e above	
37.	Gaurav is sitting _	of Priya				
	(A) to the left	(B) to the right	(C)	two place	es right (D) none of these	
38.	The angle between	n Gaurav and Manis	h in tl	ne clockwi	se direction is	
	(A) 150°	(B) 180°	(C)	210°	(D) None of these	
39.	Which of the follow	wing statements is n	ot cor	rect?		
	(A) Pritam is betw	een Manish and Kar	nla			
	(B) Manish is two	places away from Pr	riya			
	(C) Gaurav is sitti	ing opposite to Pritar	n			
	(D) All of the above	re				
whom i				-	k persons A through F – each o lesh, China, Denmark, Englan	
	(i) F, who is from	Bangladesh, is the	sitting	g to the rig	ght of B	
	(ii) The person fro	om France is sitting o	opposi	ite C, who	is from Australia	
	(iii) D is adjacent	to A and B				
		na and E is from Den	ımark			
40.	•	ne right of C, who is f		England?		
	(A) A	(B) D	(C)	_	(D) F	

PREVIOUS YEAR NTSE QUESTIONS

Direction (41 to 43): Read the following information carefully and answer the questions given below:

CIOW.							
(i)	not necessarily in another row	y in the same orde v facing towards W	r. Fiv	ve other building	- P, Q, R, S and T are		
(ii)	B is at one of	the end. There is o	nly (C between B and	D, A is to the		
(iii)			weer	P and Q S is to	the immediate right of		
Which	of the following	g pairs is a both th	e en	ds in ray of the tv	vo rows?		
(A) B a	nd A	(B) Q and S	(C)	P and T	(D) B and E		
A is in	front of which	of following building	ngs?				
(A) S		(B) P	(C)	T	(D) Q		
Which	of the following	g buildings is infro	nt of	building E?			
(A) S		(B) R	(C)	T	(D) None of these		
Direction (44 to 47): There are Eight persons E, F, G, H, I, J, K and L are seated around a square table – two on each side. There are three lady members and they are not seated next to each other J is between L and F. G is between I and F. H a lady member is second to the left of J. L a male number, is seated opposite of E, a lady member. There is lady member between F and I							
Who among the following is seated between E and H?							
(A) F		(B) I	(C)	J	(D) None of these		
How m	any persons a	re seated between l	K an	d F?			
(A) On	e		(B)	Two			
(C) The	ree		(D)	cannot to determ	nined		
Who ar	mong the follow	ving are the three l	ady:	members?			
(A) E, 0	G and J		(B)	E, H and G			
(C) G,	H and J		(D) cannot to determined				
Who ar	mong the follow	ving is the immedi	iate 1	eft of F?			
(A) G			(B)	I			
(C) J			(D)	cannot to determ	nined		
iate rigl	ht of E. E is 4th	h to the right of G.					
Who ar	re to the left of	C?					
(A) On	ly B	(B) G, B and D	(C)	G and B	(D) D, E, F and A		
Who ar	re the neighbou	ars of B?					
(A) D a	ınd G	(B) C and G	(C)	G and F	(D) C and E		
Which	of the following	g statements in no	t tru	e?			
(A) E is	s to the immed	iate left of D	(B)	A is at one of the	e ends		
(C) G i	s to the immed	iate left of B	(D)	F is second to the	ne right of D		
	(ii) (iii) (iii) Which (A) B a A is in (A) S Which (A) S ion (44 table - n other of the other of	(i) There are five not necessarily in another row in front of one (ii) B is at one of immediate left (iii) R is just opport P. Which of the following (A) B and A A is in front of which (A) S Which of the following (A) S ion (44 to 47): There table – two on each so other J is between L J. L a male number, in F and I Who among the follow (A) F How many persons are (A) One (C) Three Who among the follow (A) E, G and J (C) G, H and J Who among the follow (A) G (C) J ions (48 to 50): A, B is in the right of E. E is 4th of the left of D is at of the left of D is at of the left of D and G Which of the following (A) D and G Which of the following (A) E is to the immediate of the left of t	(i) There are five buildings – A, B, C not necessarily in the same orde in another row facing towards W in front of one another (ii) B is at one of the end. There is o immediate left of D (iii) R is just opposite of C and is bet P. Which of the following pairs is a both the (A) B and A (B) Q and S A is in front of which of following building (A) S (B) P Which of the following buildings is infrom (A) S (B) R ion (44 to 47): There are Eight persons table – two on each side. There are three other J is between L and F. G is between L and F. G is between I are the other J is between L and F. G is between I who among the following is seated between I have many persons are seated between I have many persons are seated between I (A) One (C) Three Who among the following are the three I (A) E, G and J (C) G, H and J Who among the following is the immediate in the left of E. E is 4th to the right of G. It to the left of D is at one of the ends. Who are to the left of C? (A) Only B (B) G, B and D Who are the neighbours of B? (A) D and G (B) C and G	(i) There are five buildings – A, B, C, D a not necessarily in the same order. Fir in another row facing towards West. In front of one another (ii) B is at one of the end. There is only C immediate left of D (iii) R is just opposite of C and is between P. Which of the following pairs is a both the end (A) B and A (B) Q and S (C) A is in front of which of following buildings? (A) S (B) P (C) Which of the following buildings is infront of (A) S (B) R (C) ion (44 to 47): There are Eight persons E, F, table – two on each side. There are three lad at other J is between L and F. G is between I at J. L a male number, is seated opposite of E in F and I Who among the following is seated between E (A) F (B) I (C) How many persons are seated between K and (A) One (B) (C) Three (D) Who among the following are the three lady: (A) E, G and J (B) (C) G, H and J (D) who among the following is the immediate I (A) G (B) (C) J (D) ions (48 to 50): A, B, C, D, E, F and G are inter right of E. E is 4th to the right of G. C is It to the left of D is at one of the ends. Who are to the left of C? (A) Only B (B) G, B and D (C) Who are the neighbours of B? (A) D and G (B) C and G (C) Which of the following statements in not true (A) E is to the immediate left of D (B)	(i) There are five buildings – A, B, C, D and E in a row far not necessarily in the same order. Five other building in another row facing towards West. The buildings in front of one another (ii) B is at one of the end. There is only C between B and immediate left of D (iii) R is just opposite of C and is between P and Q S is to P. Which of the following pairs is a both the ends in ray of the to P. Which of the following buildings? (A) B and A (B) Q and S (C) P and T A is in front of which of following buildings? (A) S (B) P (C) T Which of the following buildings is infront of building E? (A) S (B) R (C) T ton (44 to 47): There are Eight persons E, F, G, H, I, J, K and table – two on each side. There are three lady members and to other J is between L and F. G is between I and F. H a lady in J. L a male number, is seated opposite of E, a lady member in F and I Who among the following is seated between E and H? (A) F (B) I (C) J How many persons are seated between K and F? (A) One (B) Two (C) Three (D) cannot to determ Who among the following are the three lady members? (A) E, G and J (B) E, H and G (C) G, H and J (D) cannot to determ Who among the following is the immediate left of F? (A) G (B) I (C) J (D) cannot to determ the left of E. E is 4th to the right of G. C is the neighbour of the tothe left of D is at one of the ends. Who are to the left of C? (A) Only B (B) G, B and D (C) G and B Who are the neighbours of B? (A) D and G (B) C and G (C) G and F Which of the following statements in not true? (A) E is to the immediate left of D		

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Syllogism

Syllogism

In syllogism questions two or more statements are given and these statements are followed by two or more conclusions. The candidate is required to find out which of the conclusions logically follow from the given statements. The statements have to be taken true even if they seem to be at variance from the commonly known facts.

For such questions, the candidates should take the help of Venn diagrams. On the basis of the given statements, the candidate should draw all the possible diagrams, then he should drive the solution from each of these diagrams separately. Finally, the answer common to all the diagrams is taken.

Examples

- 1. Statements
 - I. All dogs are asses.
 - II. All asses are bulls.

Conclusions

- I. Some dogs are not bulls.
- II. Some bulls are dogs.
- III. All bulls are dogs.
- IV. All dogs are bulls.
- (A) I and II
- (B) II and III
- (C) II and IV
- (D) I and IV

Solution

(C) On the basis of both statements, the following one diagram is possible.



From the diagram it is clear that II and IV conclusions logically follow.

ASSIGNMENT-1

Directions: In each question given below two statements are followed by four conclusions numbered I, II, III and IV. You have to take the two given statements to be true even if they seem to be at variance from commonly known facts. Read the statements and conclusion and decide which of the conclusions logically follows from the two given statements, disregarding commonly known facts.

1. **Statement:** All green are blue. All blue are white. **Conclusions:** I. Some blue are green. II. Some white are green. III. Some green are not white. IV. All white are blue. (A) Only I and II (B) Only I and III (C) Only I and IV (D) Only II and IV 2. Statement: Some pens are books. Some books are pencils. **Conclusions:** I. Some pens are pencils. Some pencils are pens. III. All pencils are pens. IV. All books are pens. (A) Only I and III (B) Only II and IV (C) All the four (D) None of the four 3. Statement: All the research scholars are psychologists. Some psychologist are scientist. Conclusions: I. All the research scholars are scientist. II. Some research scholars are scientists. III. Some scientist are psychologist. IV. Some psychologist are research scholars. (A) Only III and IV (B) None of the four (C) All the four (D) Only III 4. **Statement:** All the goats are tigers. All the tigers are lions. **Conclusions:** I. All the goats are lions. II. All the lions are goats. III. Some lions are goats. IV. Some tigers are goats. (A) All the four (B) Only I, II and III (D) Only II, III and IV (C) Only I, III and IV 5. Statement: All members are students. NO student is a girl. **Conclusions:** I. All students are members. II. No members is a girl III. Some students are members. IV. Some members are girls. (A) Only I follows (B) Only I, II and III follow (C) All follows (D) Only II and III follows 6. Statement: All soaps are clean. All clean are wet. **Conclusions:** I. Some clean are soaps. II. No clean is soap. III. Some wet are soaps. IV. All wet are soaps. (B) Only I and II follow (A) Only I follows (C) Only either III and IV follow (D) Only I and III follow 7. **Statement:** All scientists are fools. All fools are illiterates. **Conclusions:**

I. All scientist are illiterates. II. All illiterates are scientist.

(A) Only I and IV follow (B) Only II follows

	(C) Only II and III follow	(D)	Only IV follows
8.	Statement : All players are teachers. So	ome	teachers are jokers.
	Conclusions:		
	I. All players are jokers.	II.	Some players are jokers.
	III. Some jokers are teachers.	IV.	Some teachers are players
	(A) All follow	(B)	Only III and IV follow
	(C) Only II and IV follow	(D)	Only either IV or I and II follow
9.	Statement: All pins are scales. All scal	es a	re caves.
	Conclusions:		
	I. All caves are scales.	II.	All scales are pins.
	III. All pins are caves.	IV.	Some caves are pins
	(A) Only I, II and III follow	(B)	Only I, II and III follow
	(C) Only either III or II and IV follow	(D)	Only III and IV follow
10.	Statement: Some men are goats. All go	oats	are jackals.
	Conclusions:		
	I. Some men are jackals.	II.	Some jackals are men.
	III. All jackals are goats.	IV.	Some goats are men.
	(A) Only I and II follow	(B)	Only III and IV follow
	(C) Only IV follows	(D)	None of these
11.	Statement: Some frogs are bricks. All	brick	s are cakes.
	Conclusions:		
	I. Some cakes are not frogs.	II.	Some cakes are frogs
	III. No cake is frog.	IV.	All frogs are cakes.
	(A) Only I and II follow	(B)	All follow
	(C) None follows	(D)	Only II, III and IV follow
12.	Statement: Some pencils are papers. S	Some	papers are boxes.
	Conclusions:		
	I. Some pencils are boxes.	II.	Some boxes are pencils.
	III. Some boxes are papers.	IV.	Some papers are pencils.
	(A) Only I and II follow	(B)	All follow
	(C) Only III and IV follow	(D)	None follow
13.	Statement: Some clothes are marbles.	Som	ne marbles are bags.
	Conclusions:		
	I. No cloth is a bag.	II.	All marbles are bags.
	III. Some bags are clothes.	IV.	No marble is a cloth.
	(A) Only either I or IV follows	(B)	Only I or II follows
	(C) Only I or III follows	(D)	None follows
14.	Statement: Some camels are ships. No	shi _l	p is a boat.
	Conclusions:		
	I. Some ships are camels.	II.	Some boats are camels.
	III. Some camels are not boats.	IV.	All boats are camels.
	(A) Only I follows	(B)	Only II and III follow

- (C) Only I and III follow (D) Only I and II follow
- 15. **Statement:** Some green are blue. No blue is white.

Conclusions:

- I. Some blue are green. II. Some white are green.
- III. Some green are not white. IV. All white are green.
- (A) Only I follows (B) Only II and III follow
- (C) Only I and II follow (D) Only I and III follow
- 16. **Statement:** Some students are brilliant. Sushma is a student.

Conclusions:

- I. Some students are dull. II. Sushma is brilliant.
- III. Susham is dull. IV. Students are usually brilliant.
- (A) Only I follows (B) Only I and II follows
- (C) Only II follows (D) All follow
- 17. **Statement:** Some keys are staplers. Some staplers are stickers. All the stickers are pens.

Conclusions:

- I. Some pens are staplers. II. Some stickers are keys.
- III. No sticker is key. IV. Some staplers are keys.
- (A) Only I and II (B) Only II and IV
- (C) Only II and III (D) Only I and IV and either II or III
- 18. **Statement:** All the locks are keys. All the keys are bats. Some watches are bats.

Conclusions:

- I. Some bats are locks. II. Some watches are keys.
- III. All the keys are locks. IV. Some keys are locks.
- (A) Only I and II(B) Only I and IV(C) Only II and III(D) Only I and III
- 19. **Statement:** All the papers are books. All the bags are books. Some purses are bags.

Conclusions:

- I. Some papers are bags. II. Some books are papers.
- III. Some books are purses. IV. Some papers are purses.
- (A) Only I and IV (B) Only II and III (C) Only I and II (D) Only I and III
- 20. **Statement:** All the bottles are boxes. All the boxes are bags. Some bags are trays.

Conclusions:

- I. Some bottles are trays. II. Some trays are boxes.
- III. All the bottles are bags. IV. Some trays are bags.
- (A) Only III and IV $\;\;$ (B) Only I and II $\;\;$ (C) Only II and III $\;\;$ (D) Only I and IV

ASSIGNMENT-2

Directions (Q. 21-25): In each of the following questions below are given some statements followed by some conclusions. You have to take the given statements to be true if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which one of the given conclusions logically definitely does not follow:

21. Statements:

All soils are stones.

Some stones are hills.

All mountains are not clouds.

Conclusions:

- (A) Some soils being clouds is a possibility.
- (B) Some soils are hills is a possibility.
- (C) No stone is cloud.
- (D) No stone is a soil.

22. **Statements:**

Some waters are streams.

All streams are canals.

All canals are rivers,

Some streams are ponds.

Conclusions:

- (A) All ponds are canals.
- (B) All canals are pond is a possibility
- (C) All streams are rivers.
- (D) All streams are not canals.

23. Statements:

Some trees are forests.

Some forests are animals.

All herbivores are pets.

All animals are not herbivores.

Conclusions:

- (A) Some trees are animals.
- (B) No pet is a herbivore.
- (C) Some trees are animals is a possibility.
- (D) All herbivores being trees is a possibility.

24. **Statements:**

Some buses are trains.

Some trains are metroes.

Some metroes are smarts.

All smarts are electronic vans.

Conclusions:

- (A) No electronic van is a smart.
- (B) Some metroes are electronic vans.
- (C) Some trains being electronic vans is a possibility.
- (D) Some electronic vans are buses is a possibility

25. Statements

All apples are oranges

All apples are not papayas.

Some papayas are guavas.

Some oranges are sweets.

Conclusions:

- (A) All apples being sweets is a possibility.
- (B) All guavas are sweets
- (C) All sweets being guavas is a possibility.
- (D) No orange is sweet.

26. Statements

Some tables are jugs.

Some jugs are pots.

All pots are plates.

Conclusions

Some plates are jugs.

II. Some pots are tables.

- III. Some plates are tables.
- (A) None follows

(B) Only I follows

(C) Only II follows

(D) Only II follows

27. **Statements**

All chairs are rings.

Some rings are sticks.

All sticks are branches.

Conclusions

- Some branches are chairs
- Some branches are rings
- III. Some sticks are chairs
- (A) None follows
- (B) Only I follows
- (C) Only II follows

(D) Only III follows

28. **Statements**

All bulbs are chairs.

All chairs are tables.

All tables are mirrors.

Conclusions

- Some mirrors are bulbs.
- II. Some tables are bulbs.
- III. All chairs are mirrors.
- (A) Only I and II follow
- (B) Only I and III follow
- (C) Only II and III follow
- (D) All follow

29. Statements

All knives are hammers.

No hammer is sword

Some swords are nails

Conclusions

- Some nails are hammers.
- II. Some swords are knives.
- III. No nail is hammer.
- (A) None follows

(B) Only either I or III follows

(C) Only II follows

(D) Only III follows

Statements 30.

Some fruits are trees.

All trees are jungles

All jungles are roads

Conclusions

I. All fruits are jungles

III. Some jungles are fruits

(A) Only I and II follow

(C) Only II and III follow

II. Some roads are fruits

(B) Only I and III follow

(D) All follow

31. Statements

Some books are pens.

Some pens are desks.

Some desks are racks

Conclusions

I. Some racks are pens

III. Some racks are books

(A) Only I follows

(C) Only III follows

II. Some desks are books

(B) Only II follows

(D) None follows

32. Statements

No room is house.

No house is building

Some buildings are huts.

Conclusions

I. Some huts are rooms

III. Some huts are buildings

(A) Only I follows

(C) Only III follows

II. Some huts are houses

(B) Only II follows(D) None follows

33. Statements:

No bottle is a jar.

All cans are jars.

All cans are tumblers.

Conclusions

I. At least some cans are bottles.

(A) neither conclusion I nor II is true

(C) only conclusion II is true

- II. No tumbler is a bottle
- (B) both conclusions I and II are true
- (D) either conclusion I or II is true

34. **Statements:**

Some prints are designs.

All designs are copies.

All copies are motifs.

Conclusions

I. At least some copies are prints.

(A) either conclusion I or II is true

(C) only conclusion I is true

II. All motifs being prints is a possibility

(B) only conclusion II is true

(D) both conclusions I and II are true

35. **Statements:**

No bottle is a jar.

All cans are jars.

All cans are tumblers.

Conclusions

I. All tumblers are jars possibility.

II. All bottles being tumblers is a

- (A) neither conclusion I nor II is true.
- (B) both conclusions I and II are true.
- (C) only conclusion II is true.
- (D) either conclusion I or II is true.

36. **Statements:**

Some prints are designs.

All designs are copies.

All copies are motifs.

Conclusions

- I. At least some prints are motifs
- II. All designs are motifs
- (A) only conclusion I is true
- (B) both conclusions I and II are true
- (C) either conclusion I or II is true
- (D) neither conclusion I nor II is true

37. **Statements:**

All clouds are vapors.

No vapors is a gas.

All gases are rains.

Conclusions

- I. All vapors being rains is a possibility.
- II. All vapors are clouds
- (A) either conclusion I or II is true.
- (B) both conclusions I and II are true.
- (C) only conclusion I is true.
- (D) only conclusion II is true.

38. **Statement:**

All soaps are clean.

All clean are wet.

Conclusions:

- I. Some clean are soaps.
- II. No clean is a soap.
- III. Some wet are soaps.
- IV. All wet are soaps.

(A) Only I follows

- (B) Only I or II follows
- (C) Only either III or IV follows
- (D) None of these

39. Statement:

- I. Price rise is a natural phenomenon
- II. If production increases prices fall.
- III. High prices affect the poor.

Conclusions:

If production rises the poor feel relieved.

(A) Only (i) and (ii)

(B) Only (i) and (iii)

(C) Only (ii) and (iii)

(D) Data sufficient

40. Statement:

Adversity makes a man wise

Conclusions:

- I. The poor are wise.
- (A) Only conclusion I is right
- (C) Both conclusion are right
- Man learns from better experience.
- (B) Only conclusion II is right
- (D) Both conclusion are wrong

PREVIOUS YEAR NTSE QUESTIONS

41. Statements:

(I) Some Cubes are squares.

(II) All squares are circles.

Conclusions:

- (I) All cubes are circles.
- (III) Some circles are square
- (A) Only conclusion I follows
- (C) All conclusions follows
- (II) Some circles are cubes.
- (IV) All squares are cubes.
- (B) Only conclusions I, II and III follows
- (D) Only conclusions II and III follows

Statements: 42.

(I) All doors are cots

(II) Some cots are erasers

Conclusions:

- (I) Some doors are erasers.
- (III) Some cots are doors.
- (A) Only conclusions III and IV follows
- (C) Only conclusions III follows
- (II) All cost are doors
- (IV) Some erasers are doors
- (B) Only conclusions I and II follows
- (D) Only conclusions IV follows

43. Statements:

(I) All parrots are koels

(II) No koel is goat

Conclusions:

- (I) No parrot is goat
- (III) All koels are parrots
- (A) Only conclusion I follows
- (C) Only conclusion II and III follows
- (II) Some Parrots are goats
- (IV) Some goats are parrots
- (B) Only conclusion III follows
- (D) Only conclusion IV follows

Statements: 44.

(I) Some pencils are papers

(II) Some papers are boxes

Conclusions:

- (I) Some pencils are boxes
- (III) Some boxes are papers
- (A) Only conclusions I and II follows
- (C) Only conclusions III and IV follows (D) All conclusions follows.
- (II) Some boxes are pencils
- (IV) Some papers are pencils.
- (B) Only conclusions II and III follows

45. Statement

(I) Some books are pencils.

Conclusions

- (I) All books are pens.
- (A) Only conclusion (I) is true
- (II) Some pencils are pens.

(II) Some pens are books.

(B) Only conclusion (II) pens

(C) Conclusion (I) and (II) both are true (D) Neither conclusion (I) nor conclusion (II) are true 46. **Statements** (I) Some men are educated. (II) Educated persons prefer small families. **Conclusions:** (I) All small families are educated. (II) Some men prefer small families. (A) Only conclusion (I) is true (B) Only conclusion (II) is true (C) Conclusion (I) and (II) both true. (D) Neither conclusion (I) nor conclusion (II) are true 47. Statement: (I) All dancers are singers. (II) All singers are teachers **Conclusions:** (I) All dancers are teachers (II) Some singers are dancers (A) Only conclusion (I) is true (B) Only conclusion (II) is true (C) Both conclusions (I) and (II) are true (D) Neither conclusion (I) nor (II) conclusion (II) are true 48. Statement: (I) Some fruits are mangoes. (II) Some fruits are not guavas. **Conclusions:** (I) All fruits are mangoes. (II) All mangoes are fruit. (A) Only conclusion (I) is true (B) Only conclusion (II) is true (C) Both conclusions (I) and (II) are true (D) Neither conclusion (I) nor conclusion (II) are true 49. Statement: (I) No horse is dog. (II) All dogs are elephants. **Conclusions** (I) No elephant is horse (II) Some elephants are dogs (A) Only conclusion (I) is true (B) Only conclusion (II) is true (C) Both conclusions (I) and (II) are true (D) Neither conclusion (I) nor conclusion (II) are true Statement 50. (I) All sages are kind. (II) All artists are kind Conclusion: (I) All sages are artists (II) All artists are sages (III) Some kind (persons) are sages (IV) Some kind (persons) are artists (A) Only (III) and (IV) (B) Only (II) and (III) (C) Only (IV) (D) None of these

26

Calendar

Calendar

- > Points to be remembered about Calendar -
- A year divisible by 4 is a leap year.
- ➤ In case of century, a leap year is that which is divisible by 400
- ➤ There are 365 days in an ordinary year, so there are 52 weeks + 1 day. Hence, an ordinary year contains 1 odd day.
- There are 366 days in a leap year. Hence, a leap year contains 2 odd day.
- > There are 28 days in February in an ordinary year while in leap year there are 29 days in Feb.
- ➤ The day of week on 1st January 1 A.D. is Monday.
- > After 11 years the calendar is repeated

Examples

1. If 22nd August is Sunday, What day was on 22days before?

- (A) Saturday
- (B) Sunday
- (C) Monday
- (D) Tuesday

Solution

(A)

Difference of No. of days = 22

$$\therefore$$
 No. of odd days = $1\left[\because \frac{22}{7} = 3 + 1\right]$

∴ 1 day before Sunday is Saturday

Hence, it will be Saturday before 22 days

ASSIGNMENT-1

1.	How many Mondays are there in a particular month of a particular year, if the	ıe
	month ends on Wednesday?	

- (A) 4
- (B) 5
- (C) 3
- (D) 4 or 5
- 2. If the day, two days after tomorrow be Thursday, what day would have been two days before yesterday?
 - (A) Friday
- (B) Tuesday
- (C) Monday
- (D) Saturday
- 3. Mahatma Gandhi was born on 2 October 1869. The day of the week was
 - (A) Sunday
- (B) Monday
- (C) Saturday
- (D) Friday

4.	5 March 1999 was on Friday. What day of the week was 5 Ma	arch 2000?
	(A) Monday (B) Sunday (C) Friday	(D) Tuesday
5.	On what dates of August, 1998, does Friday fall?	
	(A) 5 (B) 4 (C) 14	(D) 17
6.	India got independent on 15 August 1947. What was the day	of the week?
	(A) Monday (B) Friday (C) Thursday	(D) Sunday
7.	7 January 1992 was Tuesday. Find the day of the week on the year, i.e., on 7 January 1997?	ne same date after 5
	(A) Tuesday (B) Wednesday (C) Saturday	(D) Friday
8.	Number of times 29th day of the month occurs in 400 consec	utive years is
	(A) 4497 (B) 4800 (C) 4400	(D) None of these
9.	The first republic day of India was celebrated on 26 January day of the week in that date?	1950, What was the
	(A) Monday (B) Wednesday (C) Saturday	(D) Thursday
10.	O. In an ordinary year the days of March as begin on the same of months?	day of the week of other
	(A) Feb; Nov (B) Jan; Nov (C) Feb; Oct	(D) Jan; Sept
11.	1. If 2 March 1994 was on Wednesday, 25 March of 1994 was o	n
	(A) Wednesday (B) Thursday (C) Friday	(D) Monday
12.	2. Calendar for 2000 will serve for also	
	(A) 2003 (B) 2006 (C) 2007	(D) 2005
13.	3. A day after tomorrow will be X-mas day. What will be the day today is Monday?	on New Year day if
	(A) Monday (B) Wednesday (C) Sunday	(D) Tuesday
14.	4. Sunanda remembers that she saw her mother on Tuesday af 4 th of that month fell on Friday, then on what day of the weel	
	(A) 27 th (B) 28 th (C) 29 th	(D) None of these
15.	5. If 18 th February, 1997 falls on Tuesday then what will be the 1999?	day on 18 th February,
	(A) Monday (B) Tuesday (C) Thursday	(D) Friday
16.	6. If Saturday falls four days after today which is 6 th January, of December of previous year fall?	on what day did the 1st
	(A) Sunday (B) Wednesday (C) Tuesday	(D) Friday
17.	7. If Thursday falls on 20th September 1984, what day will be or	n 20 th September 1992?
	(A) Monday (B) Tuesday (C) Sunday	(D) Friday
18.	8. Which two months in a year have the same calendar?	
	(A) June, October (B) April, November	
	(C) April, July (D) October, Decem	ber
19.	9. If Wednesday falls on 25h May 1977, what day will be on 25 ^t	^h May 1996?
	(A) Sunday (B) Saturday (C) Friday	(D) Monday
20.	0. I bought the January issue of "Vigyan Pragati" in 1986, whic calendar of that year. Tell the other year for which this calen	
	(A) 1997 (B) 2001 (C) 1995	(D) 2003

ASSIGNMENT-2

21.	Radha remembers that her father's birthday was after 16 th but before 21 st Apr while her brother Mangesh remembers that his father's birthday was after 19 th ar before 22 nd April. On what date his father's birthday falls?						
	(A) 19th April	(B) 21st April	(C)	20 th April	(D) None of these		
22.	while his sister U		nat he	r mother's birt	17 th but before 21 st April hday falls after 19 th April alls?		
	(A) 20 th April	(B) 21st April	(C)	19 th April	(D) 22 nd April		
23.	month, while And 16 th but before 20	ıradha's sister reme	mbers ıy on 1	that Anuradha 6th, of the mor	13th but before 18th of the a's friend had visited after nth, then on which day of		
	(A) Saturday	(B) Monday	(C)	Sunday	(D) None of these		
24.	If 18th Jan., 1997	falls on Tuesday, wh	nat day	will fall on 18	th Feb., 1997?		
	(A) Monday	(B) Tuesday	(C)	Thursday	(D) Friday		
25.	If 1st October falls	on Sunday, what da	ay of w	eek will fall on	1st November?		
	(A) Monday	(B) Tuesday	(C)	Wednesday	(D) Thursday		
26.	If 17 th Dec., 198, 1984?	2 falls on Saturday,	what	day of the we	eek will fall on 22 nd Dec.,		
	(A) Monday	(B) Tuesday	(C)	Thursday	(D) Sunday		
27.	If the seventh day the 19 th day of the		e days	earlier than F	riday, what day will be on		
	(A) Sunday	(B) Monday	(C)	Wednesday	(D) Friday		
28.	If the 1st day of an day on the last da		leap ye	ear) falls on Fri	day, then what will be the		
	(A) Monday	(B) Friday	(C)	Saturday	(D) Sunday		
29.	Which of the follo	wing years, is a leap	year?				
	(A) 1982	(B) 1704	(C)	1978	(D) 1954		
30.	If on Wednesday year-day?	there will be X-mas	s-day.	What will be t	the day on the next New-		
	(A) Sunday	(B) Thursday	(C)	Wednesday	(D) Monday		
31.		s older to me while A rday, on which day v			s older to her. If Anuradha		
	(A) Friday	(B) Wednesday	(C)	Sunday	(D) Saturday		
32.	Veerchand was be 7 months and 8 d		982. C	n what day of	the week was he 14 years		
	(A) Tuesday	(B) Monday	(C)	Sunday	(D) Wednesday		
33.		Hemant took the calendar of the year 1990 and with its help he came to know about the days of the year. Can he use the same calendar for any other year? If so then for which year?					
	(A) 1996	(B) 2001	(C)	2005	(D) 2004		
	Directions (34 to these questions:	35): Study the info	rmatio	on given below	and then answer each of		
(i)	Kamal is availab Sunday	le at home from 12	2 nooi	n to 4 pm on	Tuesday, Thursday and		

(ii)	His younger brother Sunday between 10		e at l	nome on Monda	y, Thursday, Friday and
(iii)	The eldest brother Wednesday and Thu	•			o 12 noon on Monday, turday and Sunday.
34.	At a time on which o	of week all the three	e bro	thers are availal	ole at home?
	(A) None		(B)	Sunday	
	(C) Thursday		(D)	Can't be determ	nined
35.	For how many days	youngest brother is	s ava	ilable at a partic	cular time in a week?
	(A) 1	(B) 2	(C)	3	(D) 4
36.	On which day(s) of a at the same time?	week the younges	t and	the eldest brot	her are available at home
	(A) Only Monday		(B)	Monday and T	hursday
	(C) Only Thursday		(D)	Only Friday	
37.	If on 1st September is	s Sunday, then 1st	Nove	mber will be	
	(A) Monday	(B) Tuesday	(C)	Friday	(D) Thursday
38.	Which of the following	ng years is not a lea	ар уе	ars?	
	(A) 1600	(B) 1000	(C)	800	(D) 1200
39.	In U.P. on 17 th Octob on that day	per 1996 the presid	lent 1	rule was declare	d. Find the day of week
	(A) Tuesday	(B) Friday	(C)	Wednesday	(D) None of these
40.	If it was Saturday or 1984?	n 15 th November, 19	981, [,]	what will be the	day on 22 nd November
	(A) Monday	(B) Tuesday	(C)	Wednesday	(D) Sunday
	PRI	EVIOUS YEAR I	NTS	E QUESTION	s
41.	If your birth day 30 your birth day fall in		s on	Monday, on wh	nat day of the week does
	(A) Sunday	(B) Tuesday	(C)	Wednesday	(D) Thursday
42.	On what day of the 2015?	e week India will	celeb	rate its Republ	ic Day on 26 th January,
	(A) Sunday	(B) Monday	(C)	Tuesday	(D) Wednesday
43.	Manuni went to the What day of the wee		ago. S	She goes to the	movie only on Thursday.
	(A) Sunday	(B) Tuesday	(C)	Thursday	(D) Saturday
44.	If the fifth day of m from 10 th of that mor		hich	of the following	will be the seventh day
	(A) Wednesday	(B) Sunday	(C)	Friday	(D) Saturday
45.	If 21st November fall December?	s five days before	Wedn	esday, then wh	at will be the day on 25th
	(A) Monday	(B) Tuesday	(C)	Wednesday	(D) Thursday
46.	If 1st October is Sun	day, then 1st Noven	nber	will be	
	(A) Monday	(B) Tuesday	(C)	Wednesday	(D) Thursday
47.	Which two months is	n a year have the s	ame	calendar?	
	(A) June, October		(B)	April, Novembe	er

	(C) April, July		(D) October, Decen	nber
48.	If the first day of a year?	leap year is Mond	lay, then what will b	oe on the last far of that
	(A) Wednesday	(B) Tuesday	(C) Thursday	(D) Sunday
49.	If 14th September, 20	013 is Saturday, th	en what day will be 2	22 nd December, 2014
	(A) Sunday	(B) Monday	(C) Tuesday	(D) Wednesday
50.	If Thursday falls on 2016?	1st January 2015	what day of the wee	ek will be on 1st January
	(A) Monday	(B) Tuesday	(C) Friday	(D) Sunday

27

Clock

CLOCK

The hour hand and the minute hand of a clock move in relation to each other continuously and at any given point of time, they make an angle between 0° and 180° with each other.

Minute hand covers 360° in 1 hour, i.e., in 60 minutes. Hence, MINUTE HAND COVERS 6° PER MINUTE.

Hour hand covers 360° in 12 hours. Hence, HOUR HAND COVERS 30° PER HOUR i. e., 12° per minute.

The following additional points also should be remembered. In a period of 12 hours, the hands make an angle of

0° with each other (i.e., they coincide with each other), 11 times

180° with each other (i.e., they lie on the same straight line), 11 times.

Any other angle with each other, 22 times.

1. At what time between 5 and 6 O'clock are the hands of a clock together?

(A)
$$5 \text{ hr } 26\frac{3}{11} \text{ min}$$

(B) 5 hr
$$23\frac{3}{11}$$
 min

(D) 5 hr
$$27\frac{3}{11}$$
 min

1. Here, H = 5

$$\therefore \frac{60H}{11} = \frac{60}{11} \times 5 = \frac{300}{11} = 27\frac{3}{11}$$

 \therefore Hands of a clock are together at $22\frac{3}{11}$ minutes past 5 O'clock

2. At what time between 5 and 6 O'clock will the hands of a clock be at right angle?

(A) 5 hr
$$10\frac{10}{11}$$
 min

(B) 5 hr
$$43\frac{7}{11}$$
 min

(C) 5 hr
$$22\frac{7}{11}$$
 min

2. Here, H = 5

$$\therefore \qquad (5H \pm 15)\frac{12}{11} = (5 \times 5 \pm 15)\frac{12}{11} = 10\frac{10}{11} & 43\frac{7}{11}$$

 \therefore Hands of a clock are at right angle at $10\frac{10}{11}$ minutes past 5 and $43\frac{7}{11}$ minutes past 5.

	ASSIG	NMENT -1
1.	Find at what time between 2 and 3 O straight line but not together.	'clock will the hands of a clock in the same
	(A) $2 \text{ hr } 43\frac{7}{11} \text{ min}$	(B) $2 \text{ hr } 33\frac{7}{11} \text{ min}$
	(C) $2 \text{ hr } 22\frac{7}{11} \text{ min}$	(D) $2 \text{ hr } 3\frac{7}{11} \text{ min}$
2.	Find the time between 4 and 5 O'cloc apart.	k when the two hands of a clock are 4 minutes
	(A) 4 hr $26\frac{2}{11}$ min	(B) 4 hr $17\frac{5}{11}$ min
	(C) 4 hr $11\frac{2}{11}$ min	(D) Both (A) and (B)
3.	Find the angle between the two hand	s of a clock at 15 minutes past 4 O'clock.
	(A) 37° (B) 22°	(C) 37.5° (D) 27.5°
4.	The minute hand of a clock overtakes much a day does the clock gain or los	s the hour hand at intervals of 65 minutes. Howes?
	(A) $9\frac{10}{143}$ min (B) $10\frac{10}{143}$ min	(C) $11\frac{10}{143}$ min (D) $12\frac{10}{143}$ min
5.	At what time between 3 and 4 O'clock	are the hands of a clock together?
	(A) $15\frac{7}{11}$ minutes past 4	(B) $16\frac{4}{11}$ minutes past 3
	(C) $16\frac{2}{11}$ minutes past 2	(D) None of these
6.	At what time between 7 and 8 O'clock	will the hands of a clock be at right angle?
	(A) $19\frac{5}{11}$ minutes past 2	(B) $21\frac{9}{11}$ minutes past 7
	(C) 18 minutes past 4	(D) None of these
7.	Find at what time between 8 and 9 O straight line but not together?	'clock will the hands of a clock be in the same
	(A) $11\frac{9}{11}$ minutes past 5	(B) $9\frac{7}{11}$ minutes past 5
	(C) $10\frac{10}{11}$ minutes past 8	(D) None of these
8.	At what time between 5 and 6 O'clock	x are the hands of a clock 3 minutes apart?
	(A) 24 minutes past 5	(B) 22 minutes past 3
	(C) 26 minutes past 4	(D) none of these
9.	Find the angle between the two hand	s of a clock at 30 minutes past 4 O'clock
	(A) 40° (B) 30°	(C) 45° (D)None of these
10.	How much does a watch gain or lose minutes?	per day, if its hands coincide every 64

(B) $34\frac{2}{11}$ minutes gain

(A) $32\frac{8}{11}$ minutes gain

	(C) $32\frac{8}{11}$	minutes lo	ss	(D)	None of these	
11.		n between 1 If minutes a		'cloc	k are the hands	of the clock an integral
	(A) 55 tim	nes	(B) 56 times	(C)	58 times	(D) 60 times
12.	Number o	of times the	hands of a clock a	re in	a straight line ev	ery day is
	(A) 44		(B) 24	(C)	42	(D) 22
13.	•	_			_	n. In the afternoon of ck, the true time is
	(A) $59\frac{7}{12}$	min. past 3	3	(B)	$12\frac{3}{11}$ min past	3
	(C) 4 p.m			(D)	$7\frac{5}{12}$ min past	4
14.	My watch every min	_	n. every hour. How	mar	ny degree the sec	ond hand moves in
	(A) 375°		(B) 380°	(C)	390°	(D) 365°
15.	At what ti	ime betweer	4:30 and 5 will	the h	ands of a clock b	e in a straight line?
	(A) 50 mi	ns. Past 4		(B)	42 mins. Past 4	
	(C) $54\frac{6}{11}$	mins. Past	4	(D)	46 mins. Past 4	
16.	6th of a m	onth. It sho		ss th	an the correct ti	tes fast at 4:00 a.m. on me at 6 p.m. on the 10 th ae?
	(A) 9:15 p	o.m. on the	$7^{ m th}$	(B)	9:5 a.m. on the	8 th
	(C) 9:35 p	o.m. on the	9 th	(D)	9:20 p.m. on 7 th	1
17.	A clock st taken is	rikes 4 talk	ing 9 seconds. In o	rder	to stride 12 at th	ne same rate, the time
	(A) 27 sec	conds	(B) 36 seconds	(C)	30 seconds	(D) 33 seconds
18.	How often	are the ha	nds of a clock at ri	ght a	ngle everyday?	
	(A) 38 tim	nes	(B) 44 times	(C)	40 times	(D) 48 times
19.	How man	y times in a	day, the hands of	a clo	ck are straight?	
	(A) 22		(B) 24	(C)	44	(D) 48
20.	At 12 O'cl hand poir		nute hand points e	ast. A	At 4:30, in which	direction will the hour
	(A) North	-west	(B) South-east	(C)	South	(D) South-west
			ASSIGNI	MEN	T-2	
21.			t 5 a.m. The clock lock indicates 10 p			hours. What will be the
	(A) 9 a.m.	•	(B) 11 p.m.	(C)	11 a.m.	(D)9 p.m.
22.	-		outes slow at 5 p.: en did it give corre		-	as 5 minutes fast at 11
	(A) Wedne	esday 4 : 15	a.m.	(B)	Wednesday 7:15	ā a.m.
	(C) Tuesd	ay 7:30 a.m	1.	(D)	None of these	

23.		ıbsequent Thursda	ay at	7:00 p.m. it was	tes, slow at 6:00 a.m. on s noticed that the watch ne?		
	(A) 5:00 p.m. Tuesda	У	(B)	4:00 p.m. Tueso	day		
	(C) 6:00 p.m. Tuesda	У	(D)	3:00 p.m. Tuese	day		
24.	A man who went out hands of the watch h				8 and 9, found that the at		
	(A) 14 mins. Past 8		(B)	$21\frac{1}{13}$ mins pas	st 8		
	(C) $19\frac{2}{13}$ mins past	8	(D) 1	$18\frac{6}{13}$ mins. Past	: 8		
25.	_			_	Monday at 8 a.m. What the watch indicates 6		
	(A) 5:30 p.m.	(B) 5:40 p.m.	(C)	4:36 p.m.	(D) none of these		
26.	_	ced 10 minutes fa			ites slow at 12 noon on next day. When did the		
	(A) 9:00 p.m., on the	same day					
	(B) 9 hours 30 minut	(B) 9 hours 30 minutes p.m., on the same day					
	(C) 10 hours 30 minutes p.m., on the same day						
	(D) 10:00 p.m., on th	e same day					
27.	The watch which gain min. 48 sec. fast at 2				oon on Sunday and is 4 ch was correct at		
	(A) 2 p.m. on Tuesda	y	(B)	12 noon on Mo	nday		
	(C) 1:30 p.m. on Tue	sday	(D)	12:45 p.m. on N	Monday		
28.					on a Sunday and $10\frac{2}{3}$		
	when was the watch	correct?		_	s period (Day and Time)		
	(A) 2:36 a.m.	(B) 1:36 a.m.		2:36 p.m.			
29.	If a clock takes 22 se						
	(A) 10 seconds			14 seconds	(D) None of these		
30.	A clock strikes 12 ar strike 4?	nd it takes 22 sec	onds	to do so. How n	nuch time will it take to		
	(A) 10 s	(B) 6 s	(C)	8 s	(D)11 s		
31.	At what angle are the	hands of a clock	inclin	ned at 20 minute	s past 7?		
	(A) 80°	(B) 90°	(C)	100°	(D) 120°		
32.	What is the angle be minutes?	tween the two ha	nds (of a clock, when	the time is 2 hours 35		
	(A) 122½°	(B) 142½°	(C)	132½°	(D) 116½°		
33.	At what time between	6 and 7 O'clock,	are tl	he hands of a clo	ck together?		
	(A) 6 hours 32 % ₁₁ mi	nutes	(B)	6 hours 33 1/1 n	ninutes		
	(C) 6 hours 345/11 mis	nutes	(D)	6 hours 29 1/11 n	ninutes		
34.					a clock in the opposite		
	(A) 3 hours $48\%_{11}$ min	nutes	(B)	3 hours 49½ n	ninutes		

	(C) 3 hours 50½ r	ninutes	(D)	3 hours 47 ½1	minutes	
35.	_	the two hands of a loes the watch show		is 70°, when the	e hour hand is between 7	
	(A) 7 hours $50\frac{10}{11}$	minutes	(B)	7 hours 25 ½1	minutes	
	(C) 7 hours 42\%11 r	ninutes	(D)	Both (1) and (2	2)	
36.	The time on the whour hand will poin		e min	ute hand points	s towards the south, the	
	(A) South-East	(B) East	(C)	West	(D) North West	
37.				clock in a mirror. The time observed by the tes. What is the actual time shown on the		
	(A) 7 hours 15 min	utes	(B)	7 hours 50 min	nutes	
	(C) 7 hours 40 min	utes	(D)	7 hours 35 min	nutes	
38.	loses two minutes		e othe	er gains one mir	time at 8 a.m. One clock nute in one hour. By how me day?	
	(A) 6 minutes	(B) 9 minutes	(C)	12 minutes	(D) 15 minutes	
39.					ck gains 10 minutes in a indicates 4:00 p.m. the	
	(A) 3 hours 36 min	utes	(B)	3 hours 47 min	nutes	
	(C) 3 hours 50 min	utes	(D)	3 hours 54 min	nutes	
40.	There are two clocks on a wall, both set to show the correct time at 12 noon. Both the clocks gain 1 minute and 2 minutes respectively in an hour. If the clock which gains 1 minute in one hour shows the time as 8 minutes past 8:00 p.m. on the same day, then what time does the other watch show?					
	(A) 8 hours 4 minu	ites	(B)	8 hours 8 min	utes	
	(C) 8 hours 16 min	utes	(D)	7 hours 52 min	nutes	
	PF	REVIOUS YEAR	NTS:	E QUESTION	s	
41.		_			Anuj found himself half at was the scheduled	
	(A) 8.00 am	(B) 8.05 am	(C)	8.15 am	(D) 8.10 am	
42.		he hands of a clock			es past 6?	
	(A) $7\frac{1}{2}^{\circ}$	(B) $11\frac{1}{2}^{\circ}$	(C)	15°	(D) 23°	
43.		ow the correct time the true when the v			gains 12 minutes in 12 . on the 6 th day?	
	(A) 10 a.m.	(B) 11 a.m.	(C)	12 noon	(D) None of these	
44.		that at 12 noon, its es its hour hand po			towards north-east. In	
	(A) East	(B) West	(C)	North	(D) South	
45.		ambers 1 to 12 are a			et starting from F, then, 'clock?	
	(A) M – P	(B) P – M	(C)	N –P	(D) N –Q	

	(A) North – East	(B) South – East		(C) South	(D) South – West
47.	A bus for Bombay lead clerk told a passenge bus will leave at 10: information to the passenge at the passenge of the passenge	er that the bus had 45 a.m. At what ti	l alre	ady left ten minu	ates ago and the next
	(A) 10:05 a.m.	(B) 9:35 a.m.	(C)	10:35 a.m.	(D) 10:15 a.m.
48.	At 3: 40 A.M., the ho	our hand and the r	ninu	te hand of a cloc	k form an angle of
	(A) 120°	(B) 125°	(C)	135°	(D) 130°
49.		e-hand was 90° I re en the minute –har	turn id an	ed home betweer d hour –hand wa	gle between the hour- n 7 am and 8 am. Then as 90°. At what time
	(A) 7h 18 m 35 s & 7	'h 51 m 24 s	(B)	7h 19m 24s & 7	7h 52 m 14s
	(C) 7h 20 m 42s & 71	h 53 m 11s	(D)	7h 21m 49s & 7	⁷ h 54m 33s
50.		ne hour-hand of	a clo	ock was pointing	k was rotated by 45°, so g along the south-east n I returned ?
	(A) 15° East of South		(B)	21° East of South	1
	(C) 63° South of East		(D)	27° South of Eas	t

At 12 o' clock minute hand points east, At 4 : 30, in which direction the hour hand will point?

46.

28

Cube and Dice

Cube and Dices

Dice is a cube. In cube there are 6 faces. Numbers 1 to 6 are written on the faces. Only one number from 1 to 6 is written on one face. Some-times are faces are coloured and black dots from 1 to 6 are marked

Some important points

Examples

1. There are 6 faces in the cube – ABCG, GCDE, DEFH, BCDH, AGEF and ABHF.

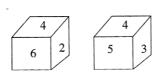


- 2. Always four faces are adjacent to one face
- 3. CDEG is the upper face of the cube.
- 4. ABHF is the bottom of the cube.

There are certain rules with the help of these rules questions on dice can easily determined.

Rule No. 1 Two opposite faces cannot be adjacent to one another.

Example.



Two different positions of a dice are shown above. Which number will appear on the face opposite to the face with number 4?

Solution: Faces with four numbers 6, 2, 5 and 3 are adjacent to the face with No. 4. Hence the faces with no.6,2,5 and 3 cannot be opposite to the face with no. 4.

Therefore the remaining face with no. 1 will be opposite to the face with no. 4.

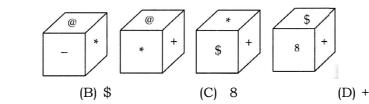
Rule No. 2. If two different positions of a dice are shown and one of the two common faces is in same position then of the remaining faces will be opposite to each other.

ASSIGNMENT-1

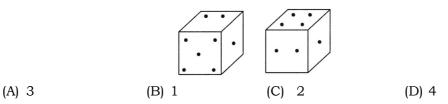
1. Which symbol will be on the face opposite to the face with symbol *?

(A) (a)

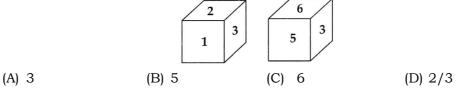
(A) 2/6



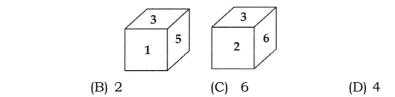
2. Two positions of dice are shown below. How many points will appear on the opposite to the face containing 5 points?



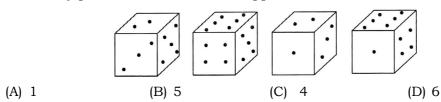
3. Which digit will appear on the face opposite to the face with number 4?



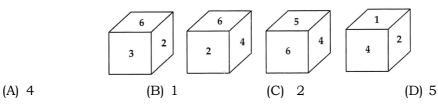
4. Two positions of a dice are shown below. Which number will appear on the face opposite to the face with the number 5?



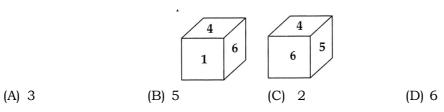
5. How many points will be on the face opposite to in face which contain 2 points?



6. Which number is on the face opposite to 6?



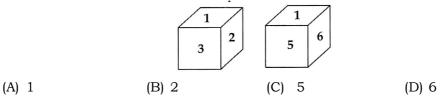
7. Two positions of a dice are shown below. When number '1' is on the top. What number will be at the bottom?



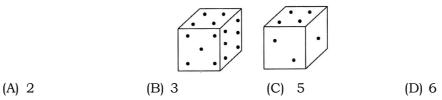
(A) 6

(A) Violet

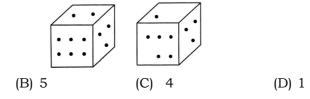
8. Two positions of a cube with its surfaces numbered are shown below. When the surface 4 touch the bottom, what surface will be on the top?



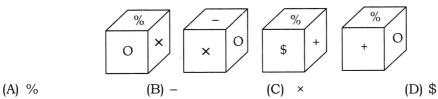
9. Here two positions of dice are shown. If there are two dots in the bottom, then how many dots will be on the top?



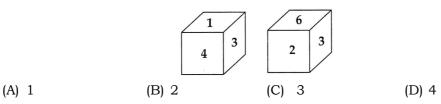
10. Two positions of dice are shown below. How many points will be on the top when 2 points are at the bottom?



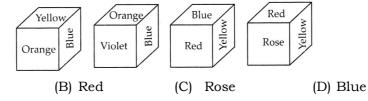
11. Here 4 positions of a cube are shown. Which sing will be opposite to '+'?



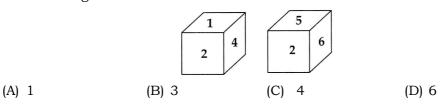
12. Two positions of a cubical are shown. When 5 is at the top which number will be at bottom?



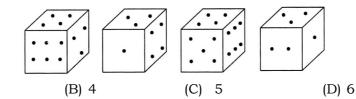
13. From the four positions of a dice given below, find the color which is opposite to vellow



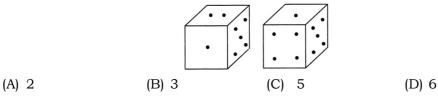
14. When the digit 5 is on the bottom then which number will be on its upper surface?



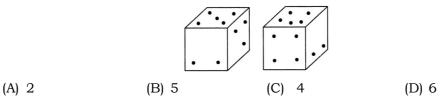
15. How many points will be on the face opposite to the face which contains 3 points?



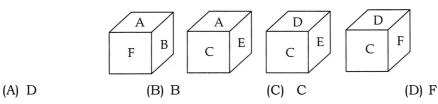
16. Observe the dots on the dice (one to six dots) in the following figures. How many dots are contained on the face opposite to the containing four dots?



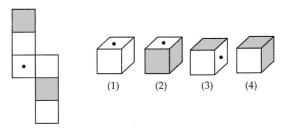
17. Two positions of a dice are shown below. When 3 points are at the bottom, how many points will be at the top?



18. From the positions of a cube are shown below, which letter will be on the face opposite to face with 'A'?



19. The figure given on the left hand side in each of the following questions is folded to form a box. Choose from the alternatives (1), (2), (3) and (4) the boxes that is similar to the box formed.



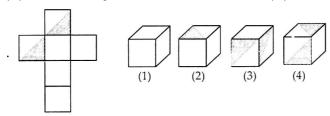
(A) 2 and 3 only

(A) 2

(B) 1, 3 and 4 only

(C) 2 and 4 only

(D) 1 and 4 only

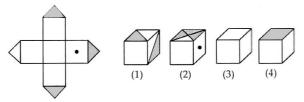


- 20.
- (A) 1 and 4 only
- (B) 3 and 4 only
- (C) 1 and 2 only
- (D) 1, 2 and 4 only

ASSIGNMENT-2

Directions (21 to 22): Select the correct alternative from the given choices.

- 21. If five cuts are made on a cube, what is the minimum number of pieces obtained?
 - (A) 18
- (B) 6
- (C) 16
- (D) 25
- 22. If six cuts are made on a cube, what is the maximum number of identical pieces obtained?
 - (A) 16
- (B) 18
- (C)36
- (D) 27
- 23. The figures given on the left hand side in each of the following questions is folded to form a box. Choose from the alternatives (1), (2), (3) and (4) the boxes that is similar to the box formed



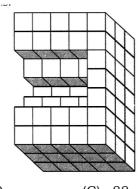
(A) 1 and 2 only

(B) 2 and 4 only

(C) 2 and 3 only

(D) 1 and 4 only

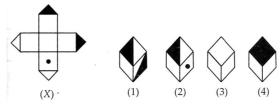
24. Count the cubes



- (A) 91
- (B) 90
- (C) 88
- (D) 89

Direction (25-29): The sheet of paper shown in the figure (X) given on the left hand side, in each problem, is folded to form a box. Choose from amongst the alternatives (1), (2), (3) and (4), the boxes that are similar to the box that will be formed.

25. Choose the box that is similar to the box formed from the given sheet of paper (X)

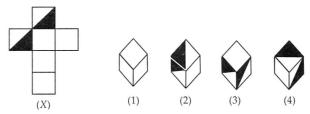


(A) 1 and 2 only

(B) 2 and 4 only

(C) 2 and 3 only

- (D) 1 and 4 only
- 26. Choose the box that is similar to the box formed from the given sheet of paper (X)

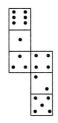


(A) 1 and 4 only

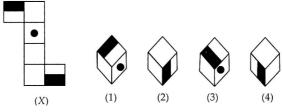
(B) 3 and 4 only

(C) 1 and 2 only

- (D) 2 and 3 only
- 27. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



- (A) 1 and 3 only
- (B) 1 and 4 only (C) 2 and 4 only
- (D) 3 and 4 only
- 28. Choose the box that is similar to the box formed from the given sheet of paper (X)



(A) 1 and 2 only

2 and 3 only (B)

(C) 2 and 4 only

(D) 1, 2, 3 and 4

Directions for questions 29: These questions are based on the following information.

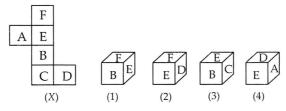
A Cube is painted in black and green, each on three faces such that any two faces with same colour are adjacent to each other. Now this cube is cut into 60 identical pieces using 2, 3 and 4 cuts parallel to different faces.

- 29. How many smaller pieces have both the colours on them?

- (B) 18
- (C) 6
- (D) 24

Direction (30 to 38): The sheet of paper shown in the figure (X) given on the left hand side, in each problem, is folded to form a box. Choose from amongst the alternatives (1), (2), (3) and (4), the boxes that are similar to the box that will be formed.

30. Choose the box that is similar to the box formed from the given sheet of paper (X)



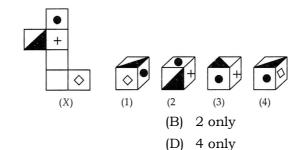
(A) 1 only

(B) 2 only

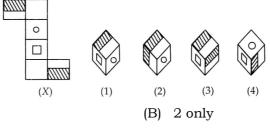
(C) 1 and 3 only

(D) 1, 2, 3 and 4 only

Choose the box that is similar to the box formed the given sheet of paper (X) 31.



32. Choose the box that is similar to the box formed from the given sheet of paper (X)



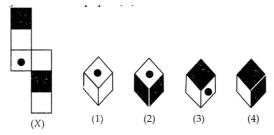
(A) 1 only

(A) 1 only

(C) 3 only

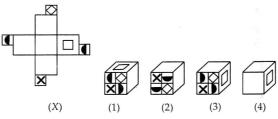
(C) 3 only

- (D) 4 only
- 33. Choose the box that is similar to the box formed from the given sheet of paper (X)



- (A) 2 and 3 only
- (C) 2 and 4 only

- (B) 1, 3 and 4 only
- (D) 1 and 4 only
- 34. Choose the box that is similar to the box formed from the given sheet of paper (X)

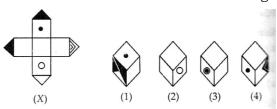


(A) 1, 2 and 3 only

(B) 2 and 3 only

(C) 1, 3 and 4 only

- (D) 2, 3 and 4 only
- 35. Choose the box that is similar to the box formed from the given sheet of paper (X)

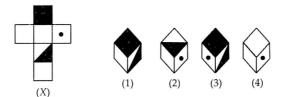


(A) 1 and 2 only

(B) 1, 2 and 3 only

(C) 1 and 3 only

- (D) 1, 2, 3 and 4
- 36. Choose the box that is similar to the box formed from the given sheet of paper (X)

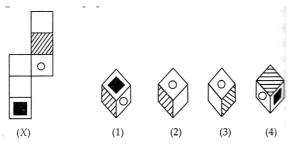


(A) 1 and 3 only

(B) 2, 3 and 4 only

(C) 2 only

- (D) 3 and 4 only
- 37. Choose the box that is similar to the box formed from the given sheet of paper (X)

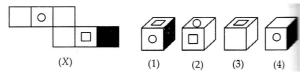


(A) 1 and 2 only

(B) 1, 2 and 4 only

(C) 1 and 4 only

- (D) 1, 2 and 3
- 38. Choose the box that is similar to the box formed from the given sheet of paper (X)



(A) 1 and 2 only

(B) 1, 2 and 3 only

(C) 4 only

(D) 1, 2, 3 and 4

Directions (39 to 40) These questions are based on the following information.

Each of 125 small identical cubes are painted black on all faces and all these cubes are arranged to form a large cube. This large cube is placed at the corner of a large room and all the visible faces of this cube are painted white.

- 39. How many smaller cubes have at least two faces with white paint?
 - (A) 13
- (B) 16
- (C) 15
- (D) 10
- 40. How many smaller cubes have no face painted white?
 - (A) 27
- (B) 100
- (C) 64
- (D) 81

PREVIOUS YEAR NTSE QUESTIONS

Directions (41 to 42): Select the correct alternative from the given choices.

- 41. If two, three and four cuts are made parallel to different faces of a cube, then what is the number of identical pieces obtained?
 - (A) 60
- (B) 30
- (C)48
- (D) 24
- 42. What is minimum number of cuts required to cut a cube into 216 identical pieces?
 - (A) 36
- (B) 18
- (C) 15
- (D) 12

Directions (43 to 45): These questions are based on the following information.

Each of 216 small identical cubes are painted blue on all faces and all these cubes are arranged to form a large cube. Now all the faces of the large cube are painted pink.

43. How many small cubes have only one colour on them?

(A) 96	(B) 125	(C) 64	(D) 48		
How many small cubes have exactly two faces pointed pink?					
(A) 36	(B) 48	(C) 64	(D) 80		
How many small cubes have exactly three faces painted blue?					
(A) 8	(B) 4	(C) 2	(D) 6		
irections (46 to 49): These questions are based on the following information.					
216 small identical cubes are arranged to form a large cube. Now three faces of the large cube are painted yellow, of which on two faces are opposite each other. Of the remaining faces, two are painted green and the other black.					
How many small cubes have all three colours on them?					
(A) 1	(B) 2	(C) 3	(D) 4		
How many small cubes have exactly two colours on them?					
(A) 28	(B) 30	(C) 37	(D) 44		
How many small cubes have exactly three faces pointed in the same colour?					
(A) 0	(B) 1	(C) 2	(D) 12		
How many small cubes have black and green but not yellow colour on them?					
(A) 8	(B) 9	(C) 10	(D) 12		
Pirections (50): These questions are based on the following information.					
A Cube is painted in black and green, each on three faces such that any two faces with same colour are adjacent to each other. Now this cube is cut into 60 identical pieces using 2, 3 and 4 cuts parallel to different faces.					
How many smaller pieces have exactly two faces painted in black?					
(A) 5	(B) 9	(C) 18	(D) 27		
	How many small cube (A) 36 How many small cube (A) 8 ions (46 to 49): These 216 small identical cube are painted remaining faces, two how many small cube (A) 1 How many small cube (A) 28 How many small cube (A) 0 How many small cube (A) 8 ions (50): These ques A Cube is painted in with same colour are pieces using 2, 3 and how many smaller pieces	How many small cubes have exactly two (A) 36 (B) 48 How many small cubes have exactly through (A) 8 (B) 4 ions (46 to 49): These questions are based of large cube are painted yellow, of which or remaining faces, two are painted green at the How many small cubes have all three conditions (A) 1 (B) 2 How many small cubes have exactly two (A) 28 (B) 30 How many small cubes have exactly through (A) 0 (B) 1 How many small cubes have black and (A) 8 (B) 9 ions (50): These questions are based or A Cube is painted in black and green, with same colour are adjacent to each pieces using 2, 3 and 4 cuts parallel to the How many smaller pieces have exactly the colour are adjacent to each pieces using 2, 3 and 4 cuts parallel to the colour many smaller pieces have exactly the colour many smaller pieces have exa	How many small cubes have exactly two faces pointed pink? (A) 36 (B) 48 (C) 64 How many small cubes have exactly three faces painted blue? (A) 8 (B) 4 (C) 2 ions (46 to 49): These questions are based on the following in 216 small identical cubes are arranged to form a large cube. large cube are painted yellow, of which on two faces are opporemaining faces, two are painted green and the other black. How many small cubes have all three colours on them? (A) 1 (B) 2 (C) 3 How many small cubes have exactly two colours on them? (A) 28 (B) 30 (C) 37 How many small cubes have exactly three faces pointed in the (A) 0 (B) 1 (C) 2 How many small cubes have black and green but not yellow of (A) 8 (B) 9 (C) 10 ions (50): These questions are based on the following inform A Cube is painted in black and green, each on three faces with same colour are adjacent to each other. Now this cube pieces using 2, 3 and 4 cuts parallel to different faces. How many smaller pieces have exactly two faces painted in black and green but not yellow of the same colour are adjacent to each other. Now this cube pieces using 2, 3 and 4 cuts parallel to different faces.		

CHAPTER

29

Counting Figures

Counting Figures

Questions in this chapter involve counting of geometrical figures such as squares, triangles, rectangles, and parallelograms in a given figure. In order to count the figures accurately, we should follow a systematic method. If we adapt a random method for counting the figures, the chances of making mistakes are high. Moreover, it may also result in wasting our valuable time.

Examples

1. Consider a square, which is divided into four parts horizontally and vertically. Count the total number of squares



(A) 25

(B) 30

(C) 35

(D) 40

Solution

(B) Number of 4×4 squares : $1 = 1^2$

Number of 3×3 squares : $4 = 2^2$

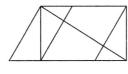
Number of 2×2 squares : $9 = 3^2$

Number of 1×1 squares : $16 = 4^2$

Thus, the total number of squares = $1^2 + 2^2 + 3^2 + 4^2 = 30$

ASSIGNMENTS - 1

1. How many quadrilaterals are there in the given figures?



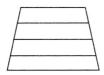
(A) 10

(B) 11

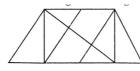
(C) 12

(D) 13

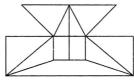
2. How many trapeziums are there in the given figures?



- (A) 10
- (B) 12
- (C) 14
- (D) 8
- 3. Find the number of triangles in the given figure



- (A) 8
- (B) 10
- (C) 12
- (D) 14
- 4. Find the minimum number of straight lines required to make the given figure



- (A) 16
- (B) 17
- (C) 18
- (D) 19
- 5. Find the number of triangles in the given figure.



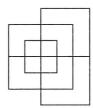
- (A) 22
- (B) 24
- (C) 26
- (D) 28
- 6. Find the number of triangles in the given figure.



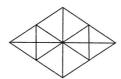
- (A) 12
- (B) 18
- (C) 22
- (D) 16
- 7. Find the number of triangles in the given figure.



- (A) 18
- (B) 20
- (C) 24
- (D) 27
- 8. Find the minimum number of straight lines required to make the given figure



- (A) 13
- (B) 15
- (C) 17
- (D) 19
- 9. Find the number of triangles in the given figure



(A) 16

(B) 22

(C) 28

(D) 32

10. Find the number of triangles in the given figure.



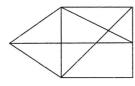
(A) 11

(B) 13

(C) 15

(D) 17

11. Find the number of triangles in the given figure.



(A) 12

(B) 13

(C) 14

(D) 15

12. Find the number of triangles in the given figure.



(A) 16

(B) 13

(C) 9

(D) 7

13. Find the number of triangles in the given figures.



(A) 21

(B) 23

(C) 25

(D) 27

14. Find the number of triangles in the given figure



(A) 10

(B) 19

(C) 21

(D) 23

15. Find the number of triangles in the given figures.



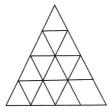
(A) 5

(B) 6

(C) 8

(D) 10

16. Find the minimum number of straight lines required to make the given figure.



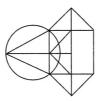
(A) 9

(B) 11

(C) 15

(D) 16

17. Find the number of triangles in the given figure



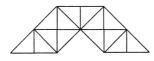
(A) 10

(B) 12

(C) 14

(D) 16

18. Find the number of triangles in the given figures.



(A) 23

(B) 27

(C) 29

(D) 31

19. Find the number of triangles in the given figure.



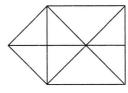
(A) 36

(B) 40

C) 44

(D) 48

20. Find the number of triangles in the given figure.



(A) 15

(B) 16

(C) 17

(D) 18

ASSIGNMENTS - 2

21. Find the number of triangles in the given figure.



(A) 8

(B) 10

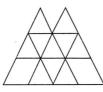
(C) 12

(D) 14

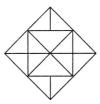
22. Find the number of triangles in the given figure.



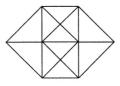
- (A) 8
- (B) 10
- (C) 11
- (D) 12
- 23. Find the number of triangles in the given figure.



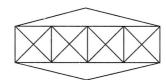
- (A) 16
- (B) 18
- (C) 14
- (D) 15
- 24. Find the number of triangles in the given figure.



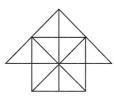
- (A) 18
- (B) 20
- (C) 28
- (D) 34
- 25. Find the number of triangles in the given figure.



- (A) 20
- (B) 24
- (C) 28
- (D) 32
- 26. Count the number of triangles and squares in the given figure



- (A) 36 triangles, 7 squares
- (B) 38 triangles, 9 squares
- (C) 40 triangles, 7 squares
- (D) 42 triangles, 9 squares
- 27. Count the number of triangles and squares in the given figures



- (A) 26 triangles, 5 squares
- (B) 28 triangles, 5 squares
- (C) 26 triangles, 6 squares
- (D) 28 triangles, 6 squares
- 28. What is the minimum number of different colours required to paint he given figure such that no two adjacent regions have the same colour?



- (A) 3
- (B) 4
- (C) 5
- (D) 6

29. Count the number of triangles and squares in the given figure.



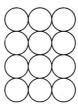
- (A) 28 triangles, 3 squares
- (B) 24 triangles, 5 squares
- (C) 28 triangles, 5 squares
- (D) 24 triangles, 3 squares

30. Count the number of parallelogram in the given figure



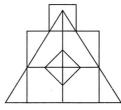
- (A) 20
- (B) 18
- (C) 16
- (D) 12

31. In the adjoining figure, if the centres of all the circles are joined by horizontal and vertical lines, then find the number of squares that can be formed



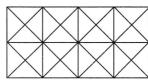
- (A) 6
- (B) 7
- (C) 8
- (D) 1

32. Count the number of triangles and squares in the given figure.



- (A) 21 triangles, 7 squares
- (B) 18 triangles, 8 squares
- (C) 20 triangles, 8 squares
- (D) 22 triangles, 7 squares

33. Count the number of squares in the given figures

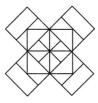


- (A) 11
- (B) 21
- (C) 24
- (D) 26

34. How many triangles and parallelograms are there in the following figures



- (A) 21, 17
- (B) 19, 13
- (C) 21, 15
- (D) 19, 17
- 35. Count the number of squares in the given figure.



(A) 22

(B) 20

(C) 18

(D) 14

36. Count the number of parallelogram in the given figure.



(A) 8

(B) 11

C) 12

(D) 15

37. How many triangles are there in the given figure?



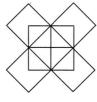
(A) 16

(B) 22

(C) 20

(D) 18

38. Count the number of rectangles in the given figure.



(A) 20

(B) 18

(C) 16

(D) 15

39. Count the number of triangles and squares in the given figure



- (A) 28 triangles, 10 squares
- (B) 28 triangles, 8 squares
- (C) 32 triangles, 10 squares
- (D) 32 triangles, 8 squares
- 40. Count the number of parallelogram in the given figure.



(A) 47

(B) 45

(C) 41

(D) 39

PREVIOUS YEAR NTSE QUESTIONS

41. How many triangles and squares are there in the given figure?



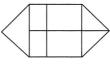
- (A) 28 triangles, 5 squares
- (B) 26 triangles, 5 squares
- (C) 28 triangles, 4 squares
- (D) 26 triangles, 4 squares
- 42. Count the number of triangles and square in the given figure.



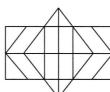
- (A) 44 triangles, 10 squares
- (B) 14 triangles, 16 squares
- (C) 27 triangles, 6 squares
- (D) 36 triangles, 9 squares
- 43. What is the minimum number of straight lines that is needed to construct the figure?



- (A) 11
- (B) 13
- (C) 15
- (D) 21
- 44. How many rectangles are there in the given figure



- (A) 10
- (B) 9
- (C) 8
- (D) 7
- 45. Determine the number of rectangles and hexagons in the given figure



- (A) 30, 5
- (B) 32, 3
- (C) 28, 5
- (D) 30, 3

CHAPTER

30

Mirror Image

Mirror Image

The image of an object as seen in a mirror is known as mirror image.

In mirror image of an object, right side of the object appears at left side and vice versa.

There are some objects whose mirror images are identical to the objects. The objects given below are such objects.

A, H, I, M, O, T, U, V, W, X and Y

Mirror Image of Numbers					
Numbers	Mirror Image				
1	1				
2	2				
3	3				
4	4				
5	5				
6	9				
7	7				
8	8				
9	6				
0	0				

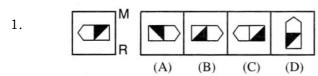
Letters	Mirror Image	Letters	Mirror Image
A	Α	N	N
В	В	О	О
C	c	P	P
D	a	Q	Q R S
E	E	R	Я
F	F	S	
G	G	T	T
Н	Н	U	V
I	Ī	W	w
J	ι	X	X
K	K	Y	Y
L	L	Z	Z
M	M	1000	

Mirror Images of Small Letters

Letters	Mirror Image	Letters	Mirror Image
a	а	o	0
b	d	р	q
c	С	q	P
d	ь	r	7
e	9	S	S
f	ì	t	ţ
g	g	u	n
h	ų	v	٧
i	i	w	w
j	i	x	Х
k	k	y	У
1	ı	z	Z
m	m		
n	п		

Examples

Problem Figure Answer Figures



Solution

(A) In problem figure two diagrams are joint to a make one diagram. If the mirror images of then two are seen separately then images will be seen as in answer figure (A). Because the mirror image of will be as and the mirror image of will be as . The image of the right will be at left and vice versa.

ASSIGNMENTS - 1

1. (X) (B) (C) (D)

2. Ø









3. (X)

















5. (x)

(D)

(D)

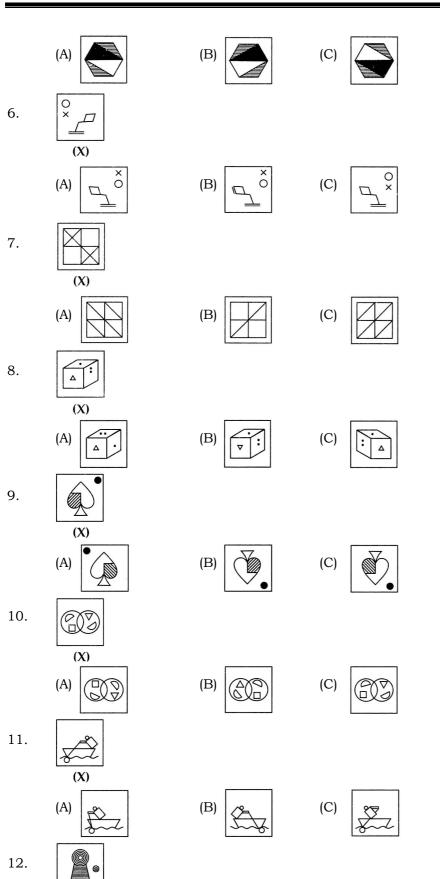
(D)

(D)

(D)

(D)

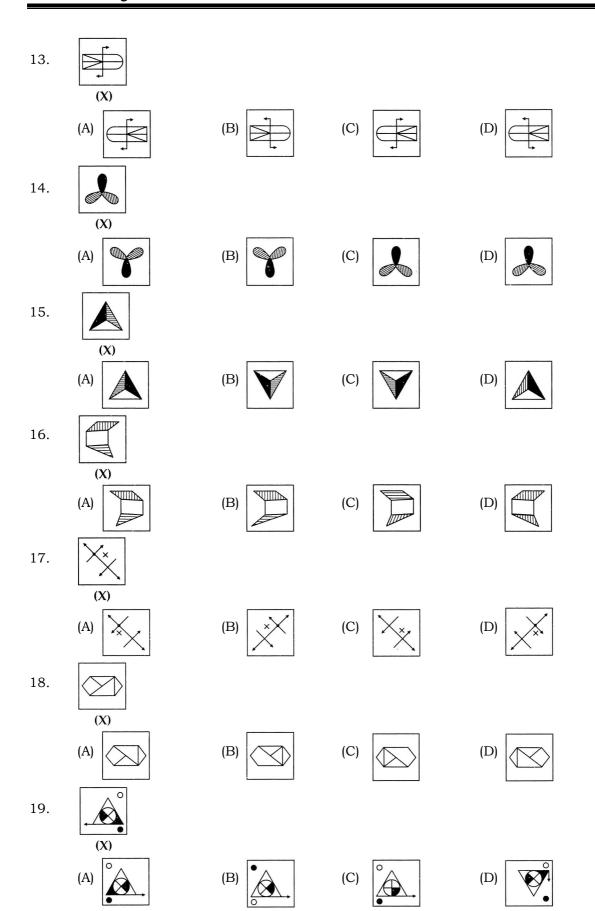
(D)



(B)

(X)





Mental Ability Test

20.

(A) (A)

(B)

(C)

(D)

ASSIGNMENTS -2

21.	LATERAL					
	(V) LYRETYL	LATERAL (B)	(C)	LARETAL	(D)	JATERAL
22.	QUANTITATIVE					
	(V) QUANTITATIVE		(B)	EVITATITNAUQ		
	EVITATITNAUQ (2)		(D)	QUANTITATIVE		
23.	JUDGEMENT					
	(A) TNEMEGDUJ	INDDEMENT (B)	(C)	JUDDEMENT	(D)	TNEMEGDUJ
24.	EMANATE					
	(V) EMANATE	EMANATE (B)	(C)	ETANAME	(D)	EATEMAN
25.	KALINGA261B					
	B162VDNITVY (A)	(B) B162AGNILVK	(C)	B261KALINGA	(D)	KALINGA261B
26.	COLONIAL					
	(A) LAINOLOC	(B) JAINOLOO	(C)	LAINOLOC	(D)	COLONIAL
27.	BR4AQ16HI					
	BR4AQ16HI (A)	(B) IH61QA4RB	(C)	BK4AQ19HI	(D)	BR4YÖ19HI
28.	R4E3N2U					
	EU2N4ER (A)	(B) U2N3E4R	(C)	R4E3N2U	(D)	R4E3N2U
29.	DL3N469F					
	(A) F964N3LD	DL3N4 $69F$ (B)	(C)	F469N3DL	(D)	LD3N964F
30.	15UP5062					
	(A) 5062UP15	(B) 26O5PU51	(C)	15UP5O62	(D)	159UP7062
31.	NiCaRaGuA	A D G D'IA				
20	(A) AUGaRaCiN	NiCaRaGnA (B)	(C)	NiCa RaGn A	(D)	NiCa RaGu A
32.	DBV8476	(D) 9476DBV	(0)	25,0119C	(D)	(74VPD
33.	(A) 8248V8C T384P5H6	(B) 8476DBV	(C)	DBV8476	(D)	674VBD
55.	(A) 6HS4P4S3T	(B) H6P5S4T3	(C)	T3S4P5H9	(D)	Т3S4Р5Н6
34.	ANS43Q12	(B) 1101 05110	(0)	711011001	(D)	311311331
~ ·•	21Q34SNA (A)	ANS43Q12 (B)	(C)	12Q43ANS	(D)	SNA34Q21
35.	TARAIN1014A		(')		` '	_
	LARAIN1014A (A)	LARAIN4101A (B)	(C)	NIARAL4101A	(D)	TARAIN1014A

36.	MIRROR			
	IM RROR (A)	MIRORR (B)	(C) RORRIM	MIRROR (C)
37.	IMAGE			
	IM AD E (A)	IMAGE (B)	IMAGE (2)	(D) EGAMI
38.	EFFECTIVE			
	EFFECTIVE (A)	(B) EVITCEFFE	TCEFFE (O)	ELAECTIAE (Q) EA
39.	UTZFY6KH			
	(A) HK9Y4ZLU	HXPAFZTU (B)	Z4X6КH (2)	UTZFY6KH (Q) UL
40.	BANK			
	(A) KNAB	BANK (B)	ВА ИХ (С)	AA NK (C)

CHAPTER

31

Classification

Classification

In classification the problem figures themselves are also the answer figures. Out of five figure A, B, C, D and E four are similar in a certain way. One figure is not like the other four. This means that four figures belongs to one class. The question is, which one of the figures does not belong to this class. The candidate has to find it.

Type I Figure based on the number of lines

Type II Figure based on the arrangement of lines

Type III Figure based on shape of diagrams

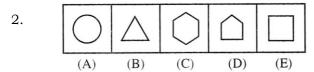
Type IV Figure based on the parts of the diagrams

Examples

1. (A) (B) (C) (D) (E)

Solution

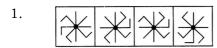
(E) Except (E) all the figures are made of five lines but the figure in (E) is of six lines. Hence odd figure is in answer figure (E)



Solution

(A) Except (A) in all the other figures the designs are made of straight lines which in figure (A) there is a circle which is not made of straight line.

ASSIGNMENT-1



- (4) (1) (2) (3)
- (A) (1)
- (B) (2)
- (C) (3)
- (D) (4)

2.

- (1) (2) (3)(4)
- (A) (1)
- (B) (2)
- (C) (3)
- (D) (4)

3.

- (2) (1) (3) (4)
- (A) (1)
- (B) (2)
- (C) (3)
- (D) (4)

4. (4)

- (2)(3) (1)
- (A) (1)
- (B) (2)

(B) (2)

- (C) (3)
- (D) (4)

5.

(1)

(A) (1)

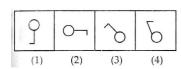
(2)(3) (4)

- (C) (3)
- (D) (4)

6.

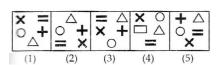
- (1)
- (2)(3) (4)
- (A) (1)
- (B) (2)
- (C) (3)
- (D) (4)

7.



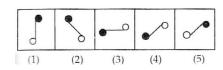
- (A) (1)
- (B) (2)
- (C) (3)
- (D) (4)

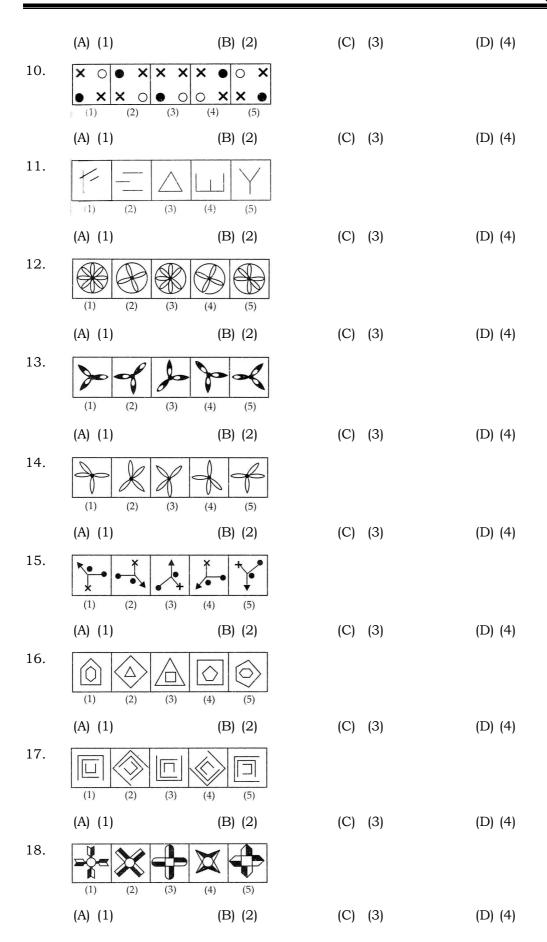
8.

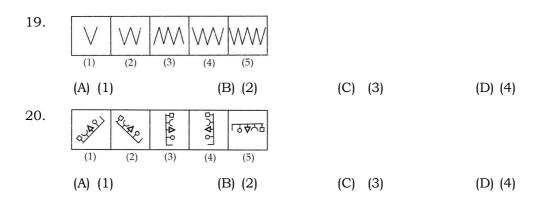


- (A) (1)
- (B) (2)
- (C) (3)
- (D) (4)

9.

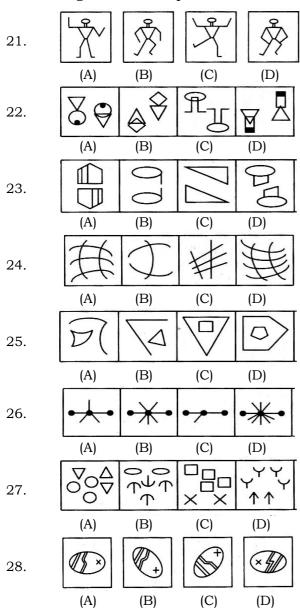


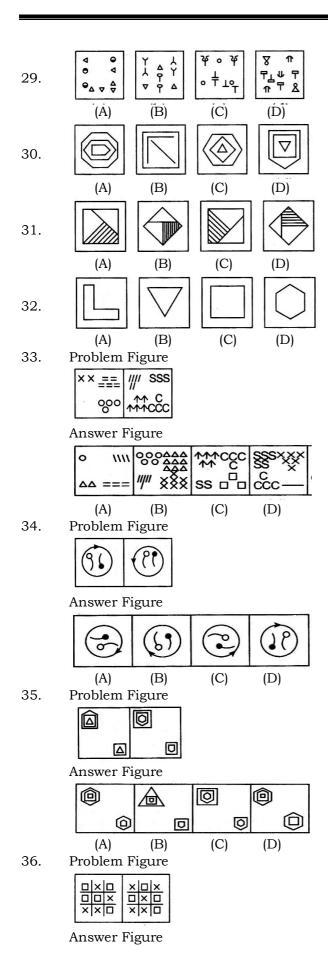




ASSIGNMENT-2

Direction: Out of the set of problem figures, lies one figure which is one among the answer figure itself. The problem figure possess among each other some relationship. But one of these figures does not possess the same relationship as other figures. We have to find out odd man figure from the options available in the given figures.





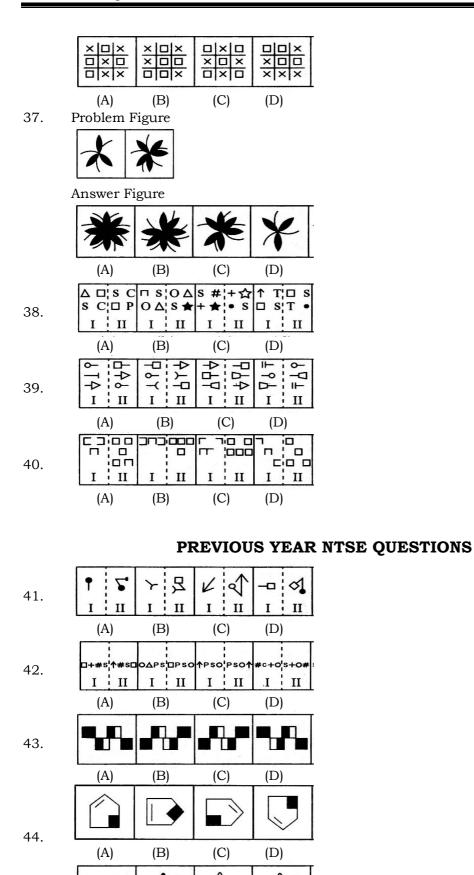
45.

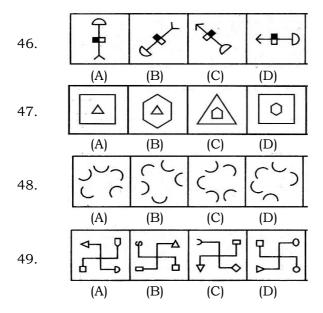
(A)

(B)

(C)

(D)





CHAPTER

32

Series

Series

In this type of questions, there are two sets of figures. One set is called 'Problem Figures' while the other as 'Answer Figures'. Problem figures are first and four in number while answer figures are after and four in number. The answer figures are indicated by A, B, C and D. The five problem figures make a series. That mean they change from left to right in specific order. The question is, if the figure continue to change in the same order what should be the next figure?

Type I - Based on Numbers

Type II - Based on shape and size of figure

Type III - Based on rotation of figures

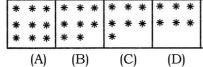
Type IV - Based on Position

Type V - Based on Combination and Diffusion

Type VI - Based on Increasing or Decreasing Figure

Examples

1.



Solution

Here from A to B the number of designs in changing from 9 to 8.

From B to C the number of designs is changing from 8 to 7

From C to D the number of designs is changing from 7 to 6

Thus in each subsequent figure the number of designs is decreasing by one.

Hence E the number of designs will be 5.

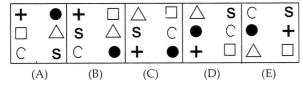
Therefore answer is



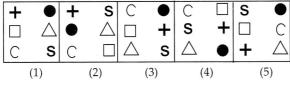
ASSIGNMENT-1

Direction: Problem figures are A to E while answer figures are (1) to (5). The answer figures are indicated by 1, 2, 3, 4 and 5. The five problem figures make a series. That mean they change from left to right in specific order. The question is, if the figure continue to change in the same order what should be the next figure?

1. Problem Figure



Answer Figure



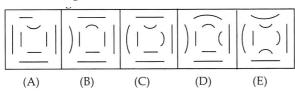
(A) (1)

(B)(2)

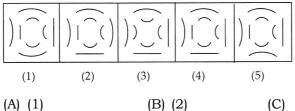
(C) (3)

(D) (4)

2. Problem Figure



Answer Figure

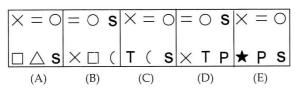


(C) (3)

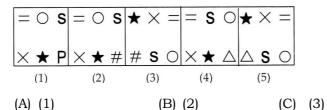
(D) (4)

(D) (4)

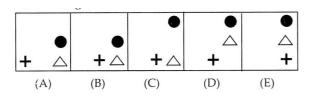
3. Problem Figure



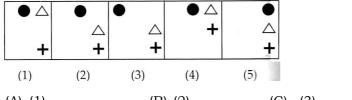
Answer Figure



4. Problem Figure



Answer Figure



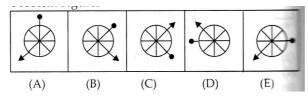
(A) (1)

(B) (2)

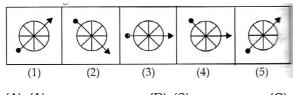
(C) (3)

(D) (4)

5. Problem Figure



Answer Figure



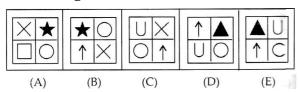
(A) (1)

(B) (2)

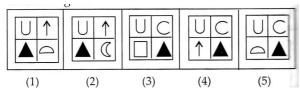
(C) (3)

(D) (4)

6. Problem Figure



Answer Figure



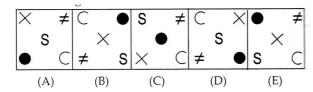
(A) (1)

(B) (2)

(C) (3)

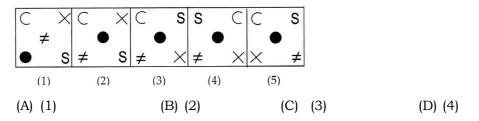
(D) (4)

7. Problem Figure

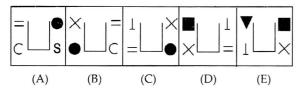


Answer Figure

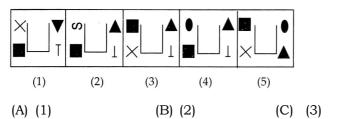
Mental Ability Test



8. Problem Figure

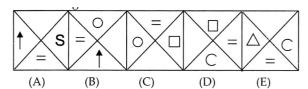


Answer Figure

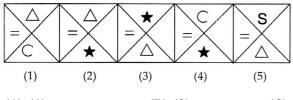


Problem Figure

9.



Answer Figure



(A) (1)

(B) (2)

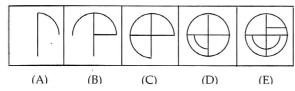
(C) (3)

(D) (4)

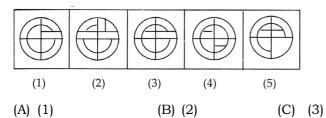
(D) (4)

(D) (4)

10. Problem Figure

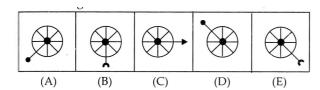


Answer Figure

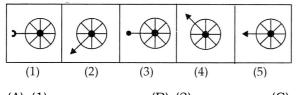


Problem Figure

11.



Answer Figure



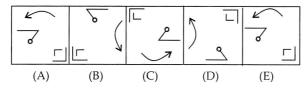
(A) (1)

(B) (2)

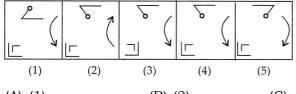
(C) (3)

(D) (4)

12. Problem Figure



Answer Figure



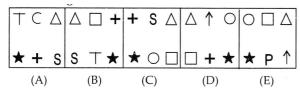
(A) (1)

(B) (2)

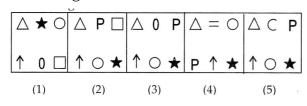
(C) (3)

(D) (4)

13. Problem Figure



Answer Figure



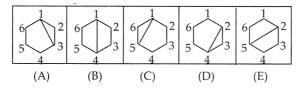
(A) (1)

(B) (2)

(C) (3)

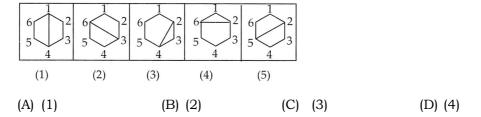
(D) (4)

14. Problem Figure

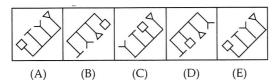


Answer Figure

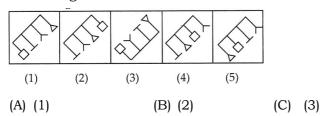
Mental Ability Test



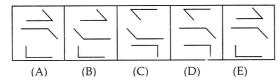
15. Problem Figure



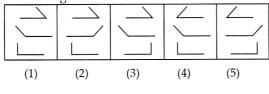
Answer Figure



16. Problem Figure



Answer Figure



(A) (1)

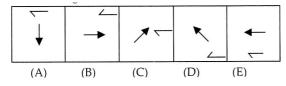
(B) (2)

(C) (3)

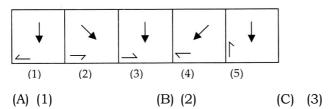
(D) (4)

(D) (4)

17. Problem Figure



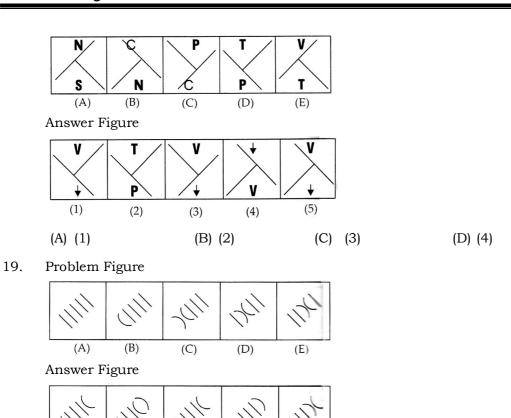
Answer Figure



Problem Figure

18.

(D) (4)



20. Problem Figure

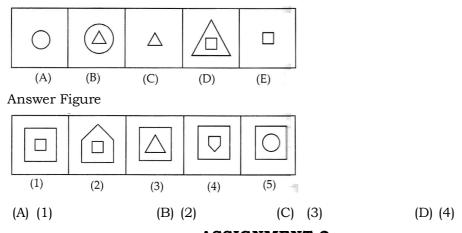
(A) (1)

(1)

(2)

(3)

(B) (2)



(4)

ASSIGNMENT-2

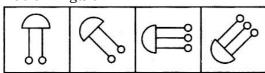
(5)

(C) (3)

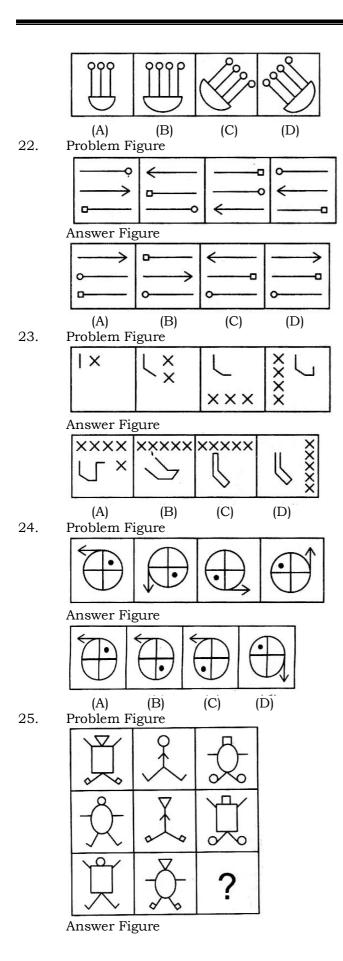
(D) (4)

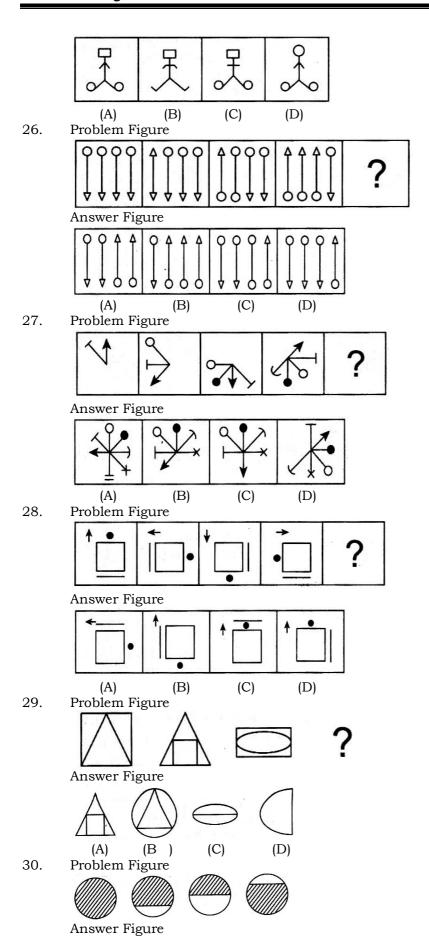
Direction: Problem figures are in some order of sequence. The answer figures are indicated by A, B, C, and D. The four problem figures make a series. That mean they change from left to right in specific order. The question is, if the figure continue to change in the same order what should be the next figure?

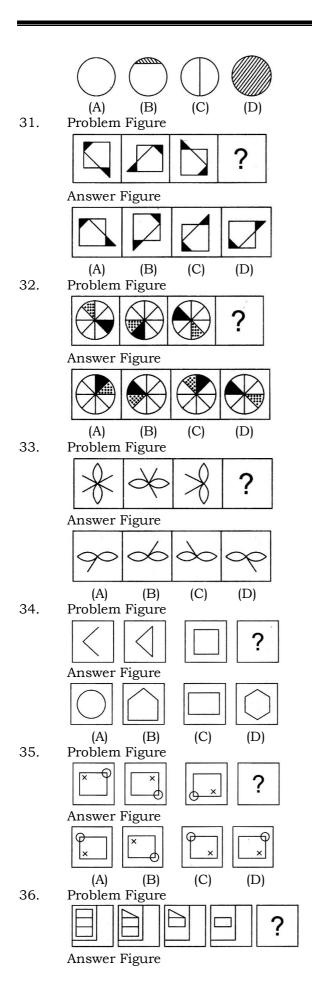
21. Problem Figure

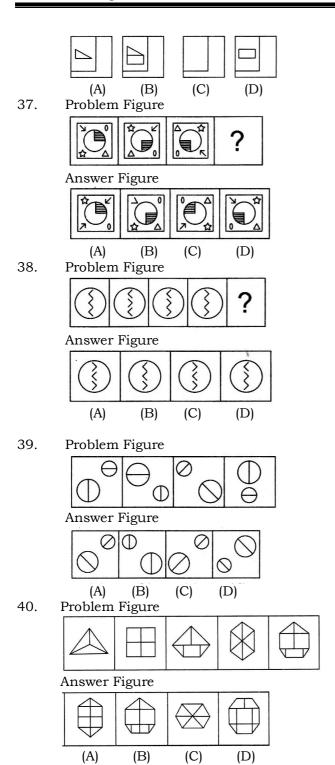


Answer Figure









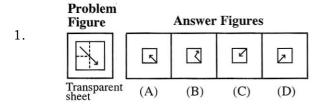
33

Folding Paper Cutting & Transparent Paper Folding

Folding Paper Cutting and Transparent Paper Folding

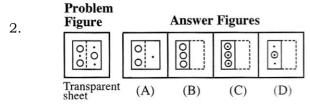
This type of questions are based on a transparent sheet. Some marks are made on the transparent sheet and a dotted line is made on the sheet. Then this sheet is folded along the dotted line. Four answer figures are also given with this problem figure. The candidate has to find out that figure among the answer figures, which resembles the pattern formed when the transparent sheet carrying a design is folded along the dotted line.

Examples



Solution

(A) If the problems figure the arrow indicates the mark on the transparent sheet. The vertical dotted line shows the first fold while the horizontal dotted lines represents the second fold. Thus in folding the transparent sheet we will get the figure as shown in answer figure (A)



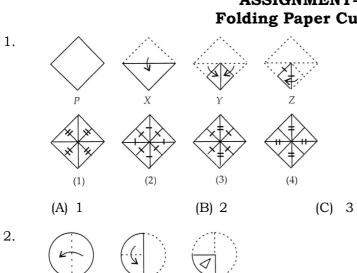
Solution

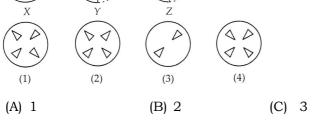
(C) On folding the transparent sheet along dotted line, all the transparent sheet along dotted line, all the points, will go inside the circles. Hence the answer is (C)

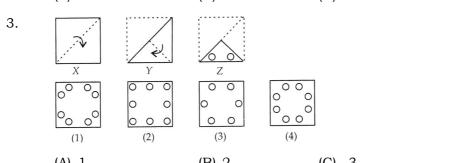
ASSIGNMENT-1 Folding Paper Cutting

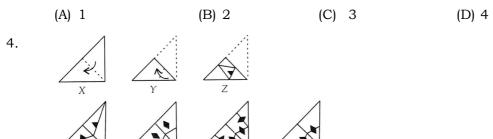
(D) 4

(D) 4



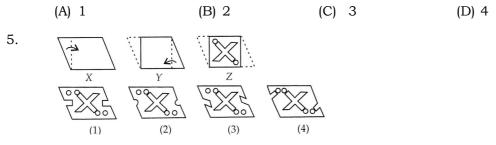


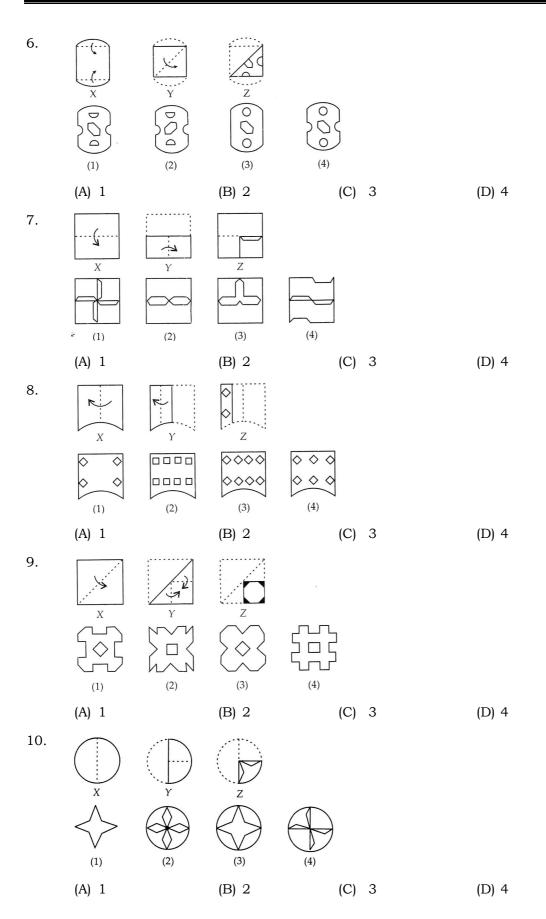


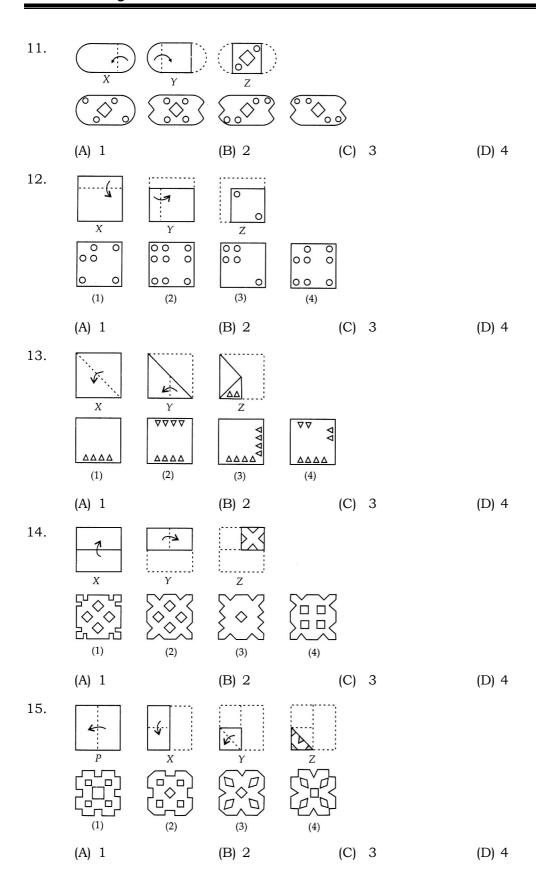


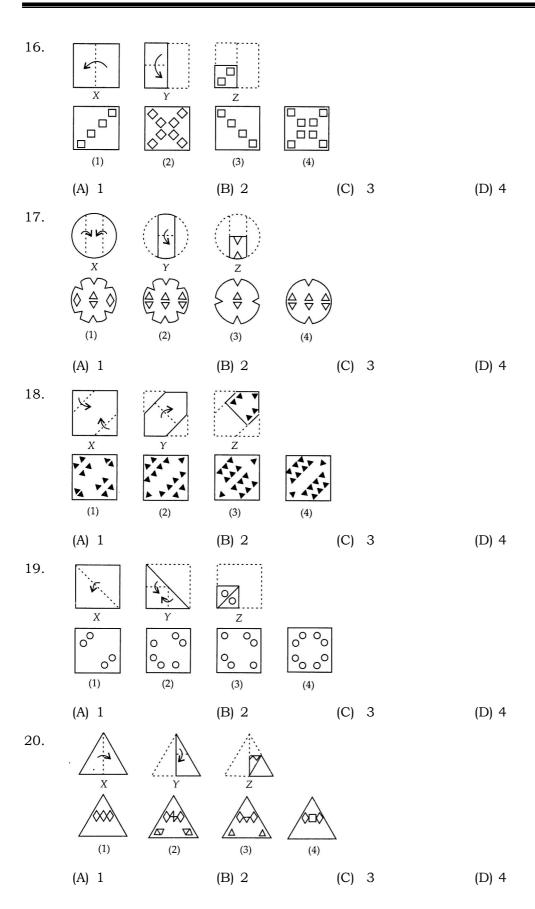
(3)

(1)



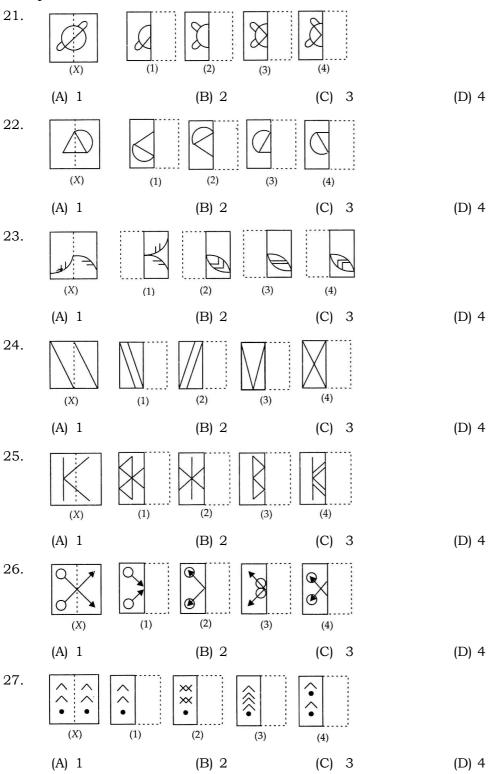


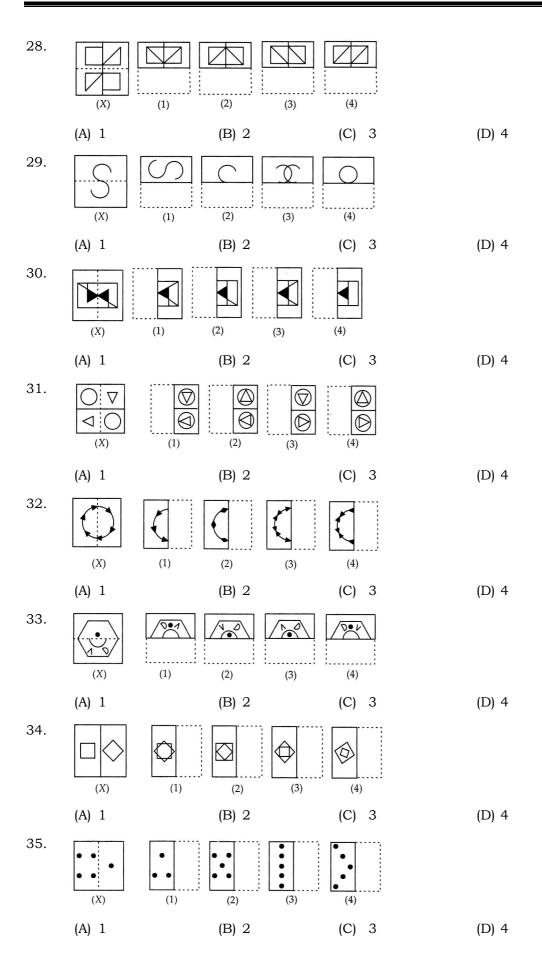


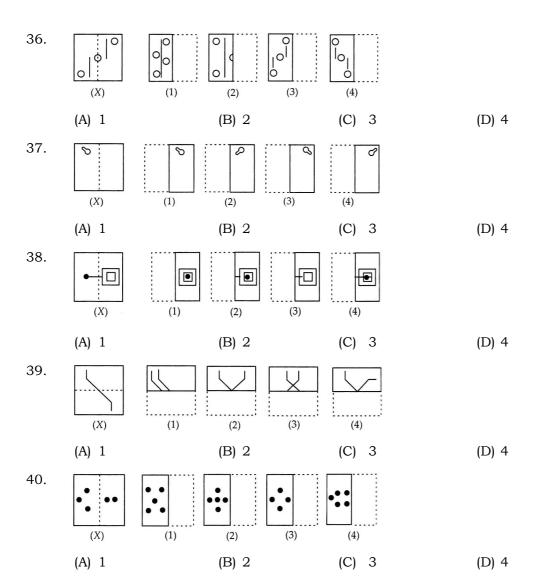


ASSIGNMENT-2 Transparent Paper Folding

In each of the following problems, a square transparent sheet (X) with a pattern is given. Figure out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.







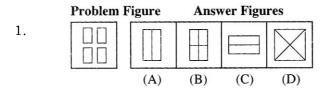
34

Formation of Figure Analysis

Formation of Figure Analysis

In such questions there is a box in problem figures. In this box there are some designs. In answer figures there are boxes. In these boxes there is a complete design in each box. The candidate has to find out from the answer figures which figure can be formed with the designs given in the box in problem figure. The following few example will clear the idea.

Examples



Solution

(B) By combining all the four rectangles given in the box in problem figure we get a figure as shown in box (B) in the answer figures. Hence the answer is (B)

2. Problem Figure Answer Figures

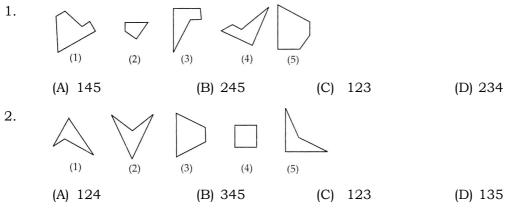
(A) (B) (C) (D)

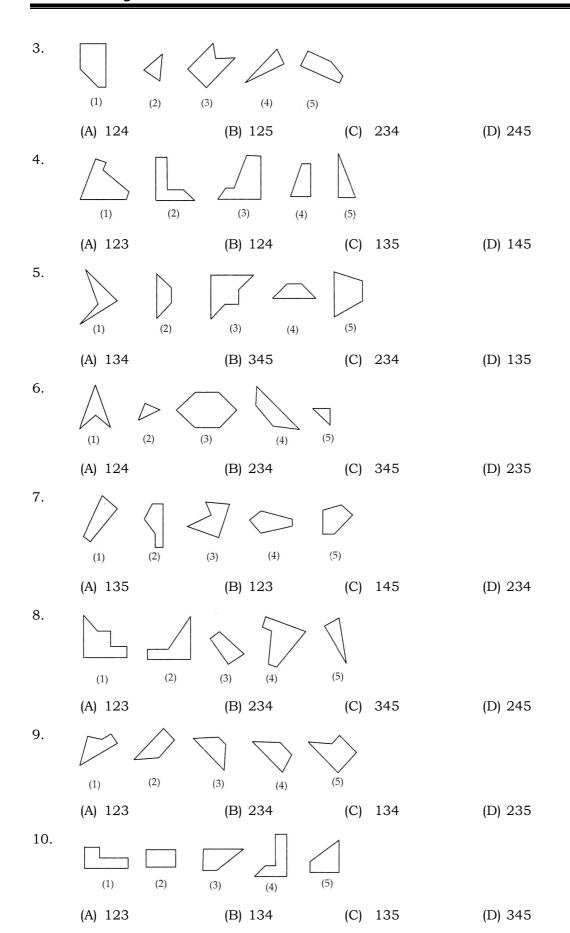
Solution

(B) In the box of problem figure there are three designs. These all the three designs are present only in answer box (B) of the answer figures. Hence the answer is (B)

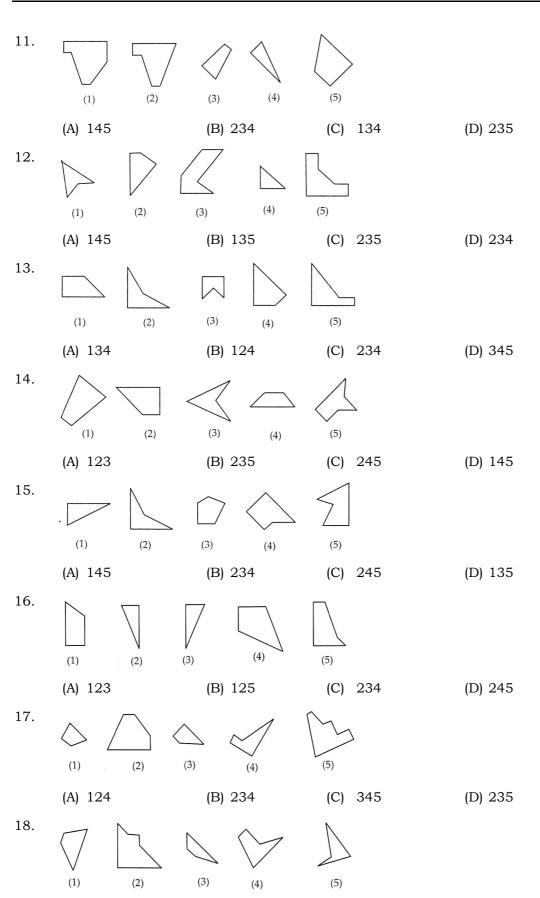
ASSIGNMENT-1

Direction: Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square





Mental Ability Test

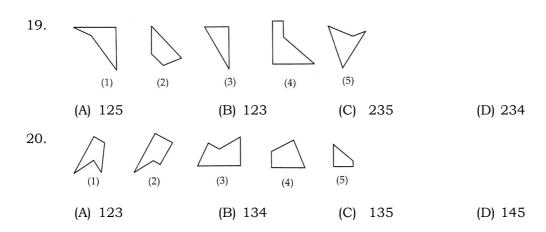


(C) 125

(D) 235

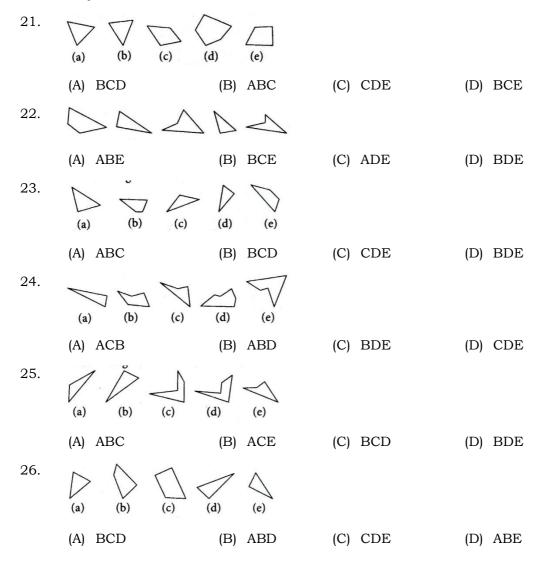
(B) 124

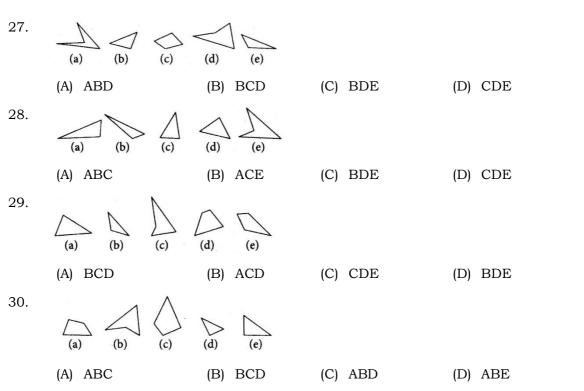
(A) 123



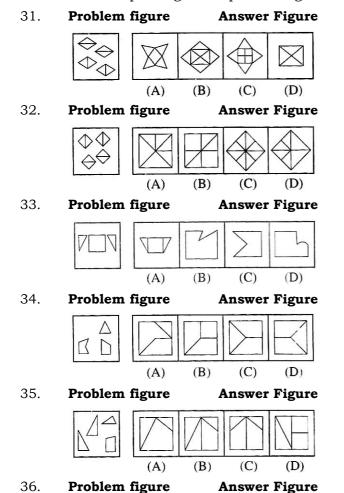
ASSIGNMENT-2

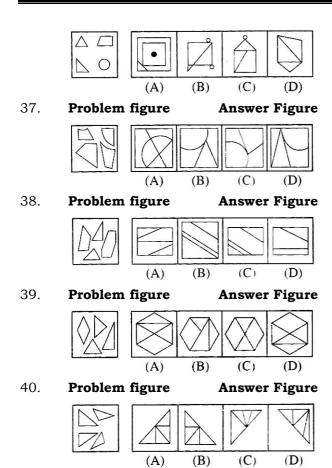
Directions (21 to 30): In each of the following questions, five diagrams marked A to E are given. Three of these when put together form an equilateral triangle and have been given as one of the four alternatives under the question. Find the correct alternative in each case and mark your answer.





Direction: In each of the following questions, find out which of the answer figures can be formed from the pieces given in problem figure





35

Dot Situations

Dot Situation

Dot situation is for the assessment and testing of students' shrewd observation power. A problem figure is given in which has one or more dots are placed in the space enclosed by two or more geometrical figures such as square, rectangle, circle triangle, pentagon, hexagon, octagon etc. One has to identify the region(s) where the dot is/are situated in the problem figure. Then search for an answer figure in which dots are placed in a similar enclosed area.

Example:- Problem figures



(A)

(B)

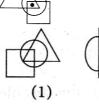
(c)

(D)

ASSIGNMENT-I

Direction : From amongst the figures marked (A), (B), (C) and (D) select the figure which satisfies the same conditions of placement of the dots as in figure.

1.



(A) 1



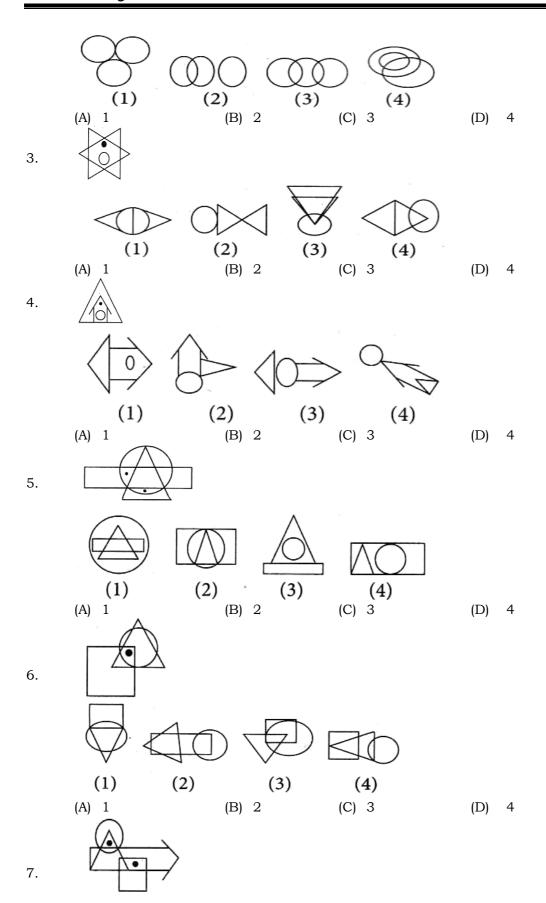
(3) (B) 2



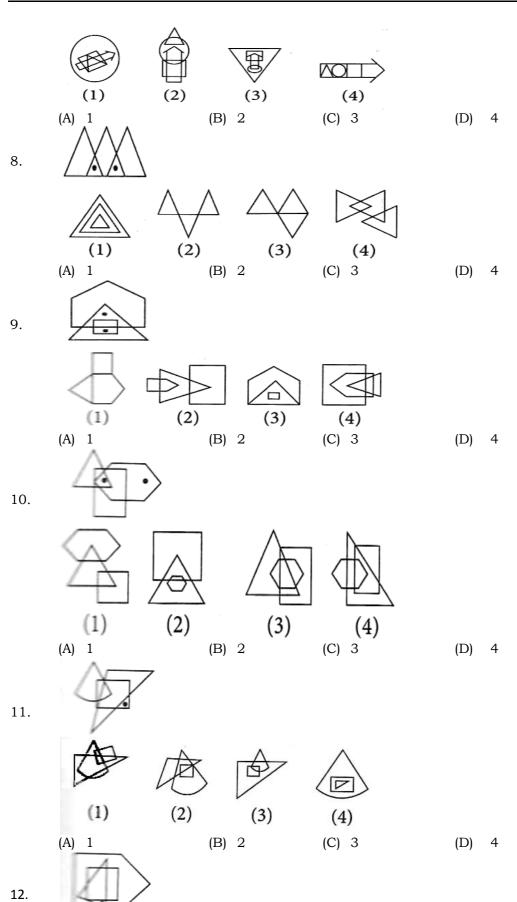
(C) 3

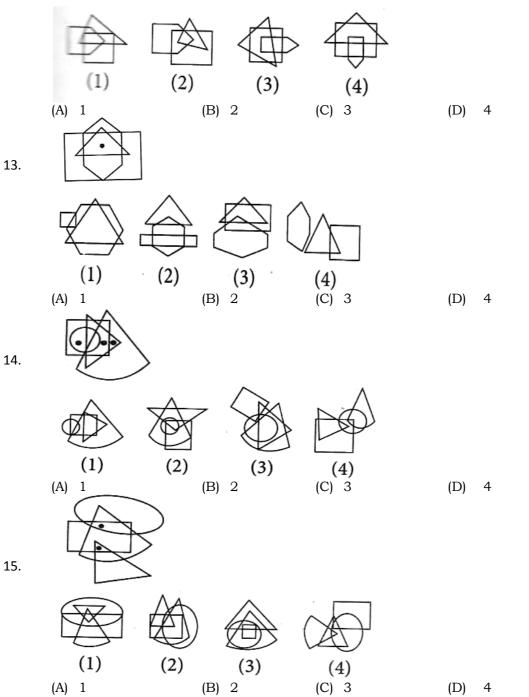
(D) 4

2.

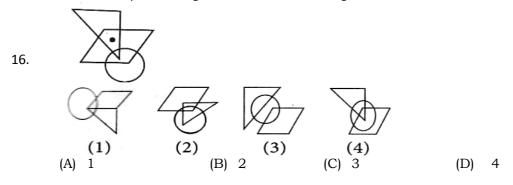


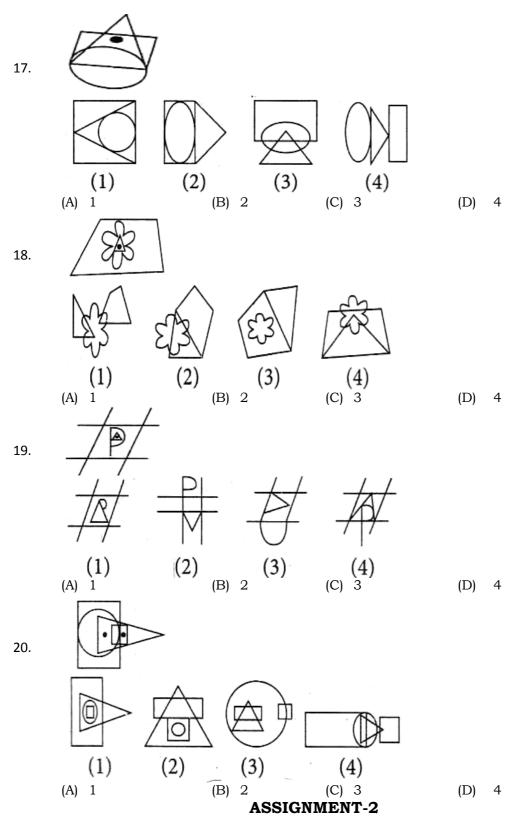
Mental Ability Test



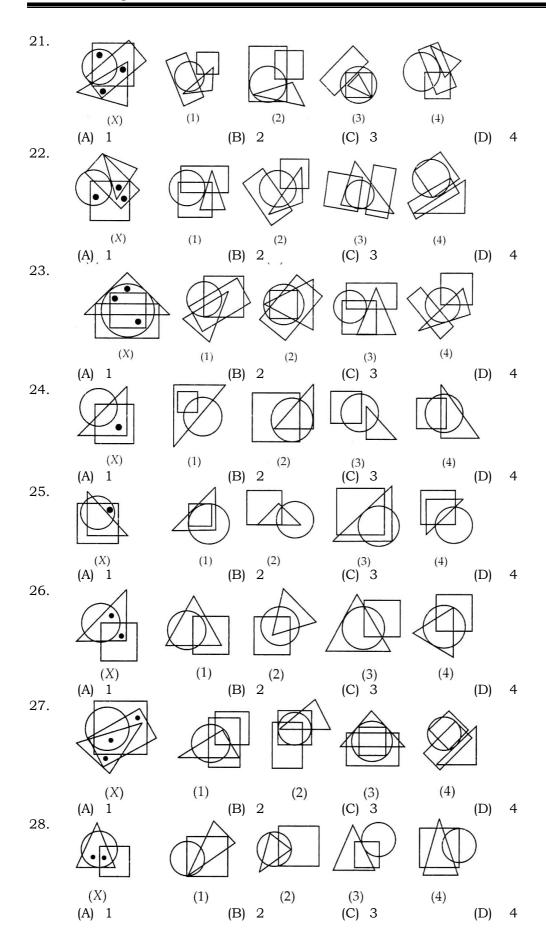


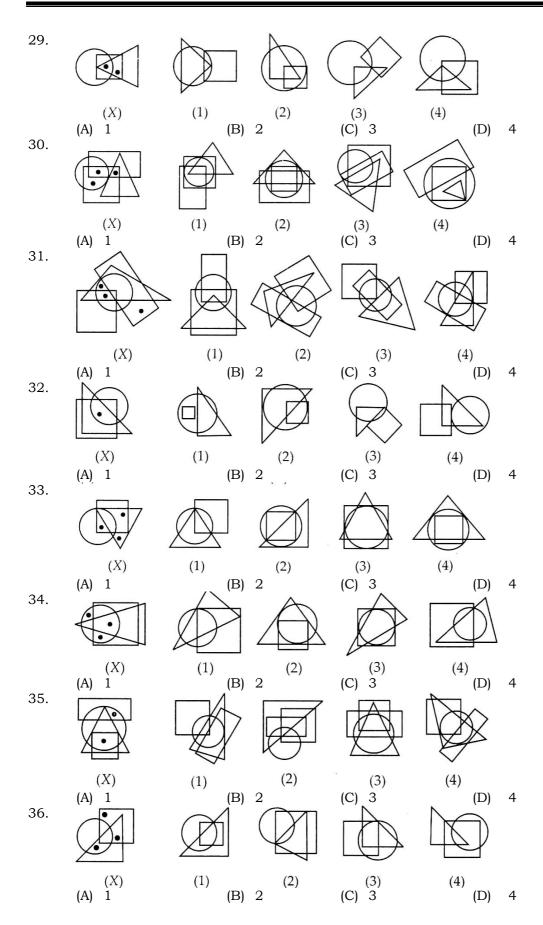
Directions for questions 16 to 20: in each of the following questions, there is a problem figure, with one or more dots placed in it. This diagram is following by four answer figures, marked (1), (2), (3) and (4) only one of which is such as to make possible the placement of the dot(s) satisfying the same conditions as in the problem figure. Find such answer figure.

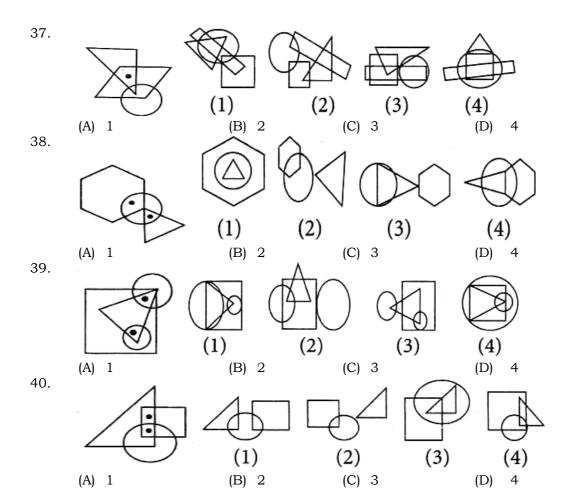




Direction: From amongst the figures marked (A), (B), (C) and (D) select the figure which satisfies the same conditions of placement of the dots as in figure (X)







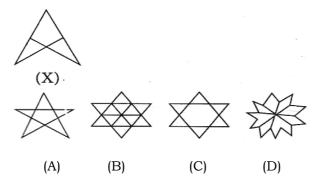
36

Embedded Figures

Embedded Figures

The questions are of this type, a problem figure is given (X) following by five figure (1), (2), (3) and (4). The answer figure has a hidden figure of the problem figure and one should identify that figure.

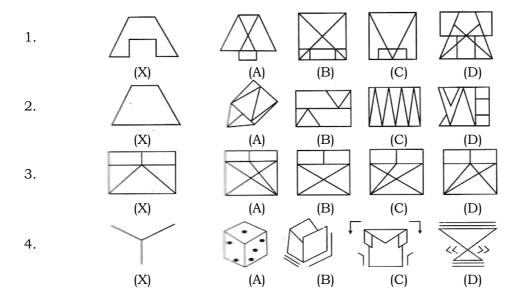
Example

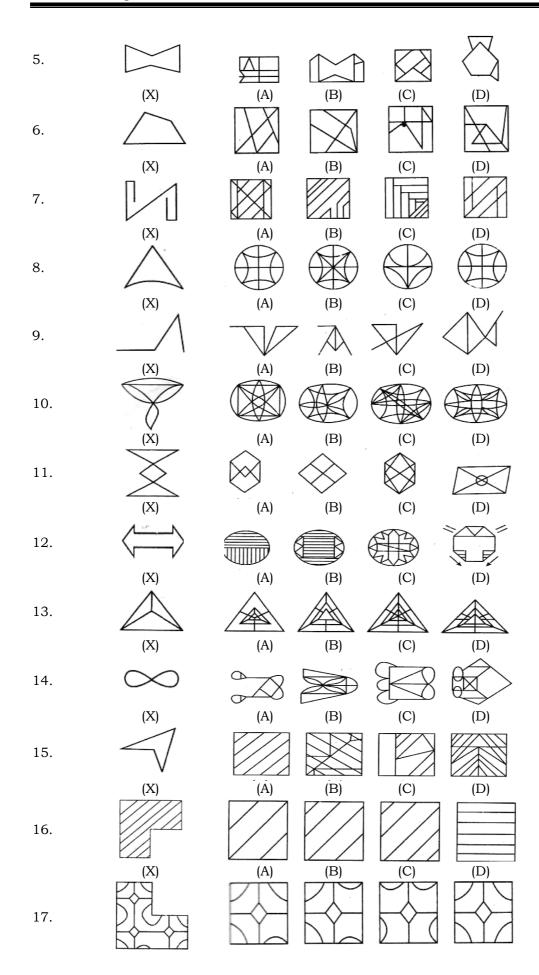


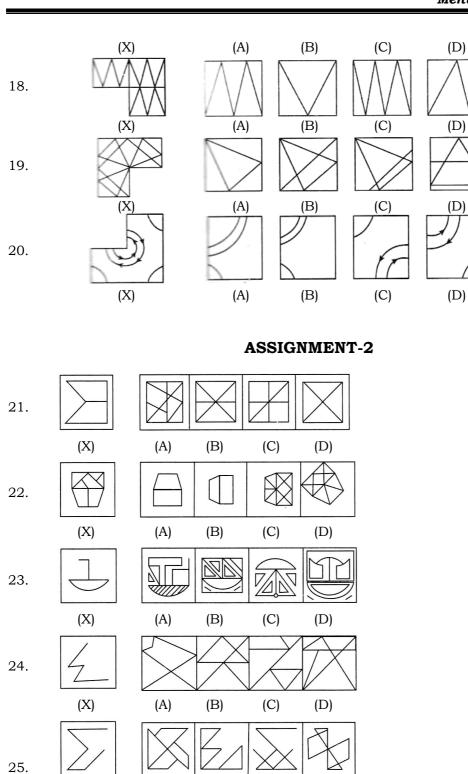
Solution (A)

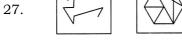
ASSIGNMENT-1

Directions for question 1 to 15: In each question below, you are given a figure (X) followed by five figure (1), (2) (3) and (4) such that (X) is embedded in one of them. Trace out the correct alternative.









(X) (X)

(X)

26.

(1)

(A)

(A)

(2)

(B)

(B)

(3)

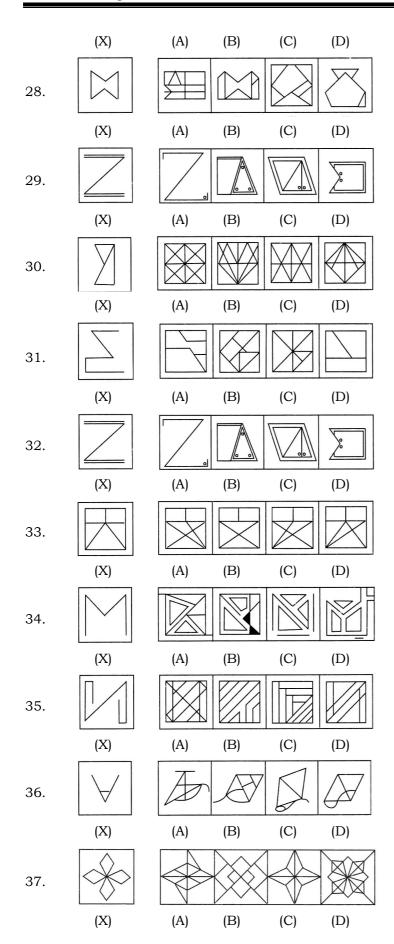
(C)

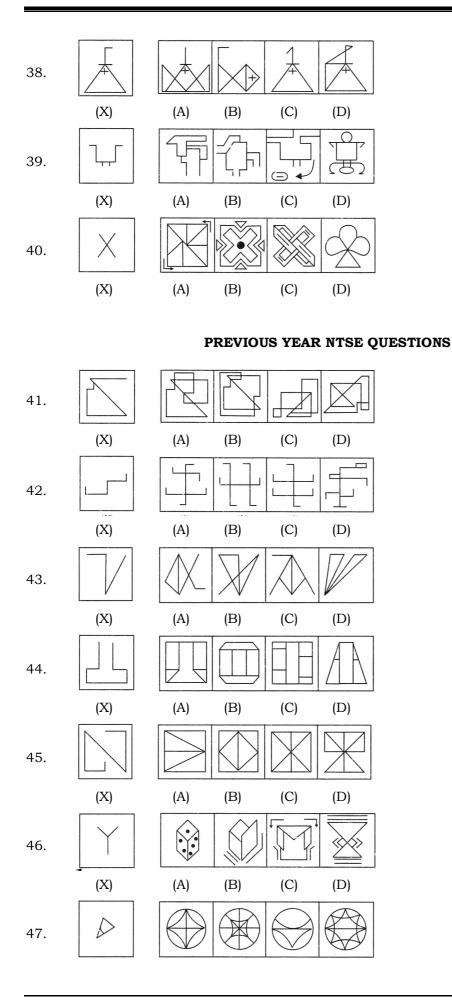
(C)

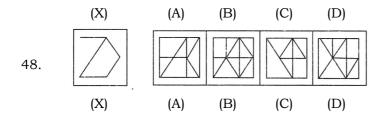
(4)

(D)

(D)







37

Water Image

Water Image

The reflection of an object as seen in water is known as water image. The upper part of the object seen downward and vice-versa . There are some objects whose water images are identical to the objects. Such objects are given below

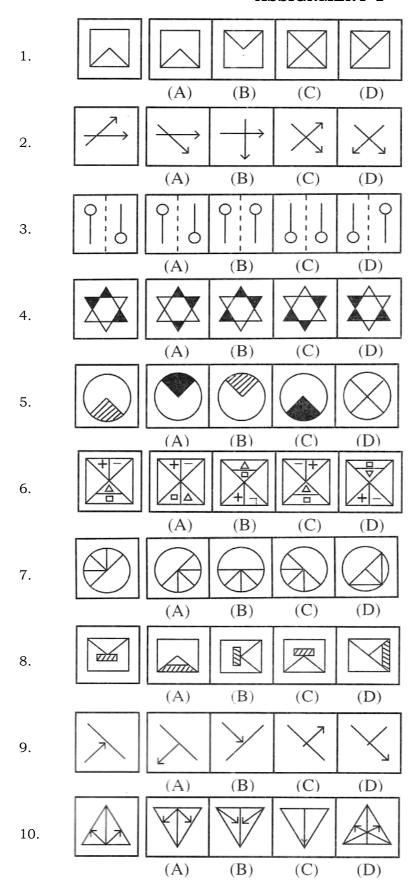
B, C, D, E, H, I, K, O and X

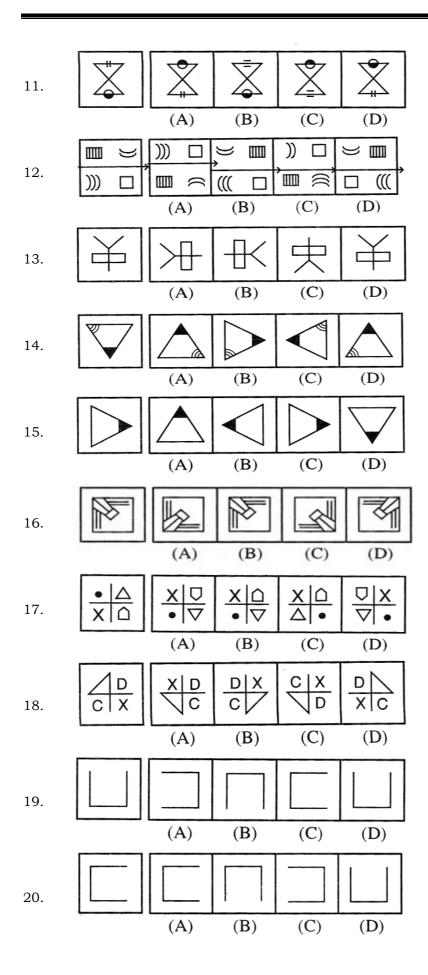
Water Image Numbers

(Numbers)	(Water-image)			
0	0			
1. 1.	1			
2	2			
3	3			
4	4			
5	5			
6	u pa, e genabai ed lite			
7	7 rad byerd			
8	8			
9	9			

Water Image of Capital Letters		Water Image	Water Image of Small Letters			
(Letters)	(Water-image)	(Letters)	(Water-image)			
Α	A	a	a			
A B	В	b	p			
C	C	c	c			
D	D	d	q			
Е	E	e	G			
F	E	I	8			
G	and a call of C	g	e comunication of transfer			
Н	The small of light distributed	i i				
irk ibod aftil smiled	I	i	i			
J	1	k	ķ			
K	K	1	I			
L	Г	m	III			
M	M	n	IJ			
N	N	0	0			
0	O	p	b			
P	Ь	q	ď			
Q	6	r	L			
R	R	, S	S			
S	S	t	u t			
T	T	u	Λ			
U	n	V	W			
v	Λ	w x	X			
w	W		λ			
	X	y z	Z			
X	Y					
Y						
Z	Z					

ASSIGNMENT-1





ASSIGNMENT-2

21.	KICK							
	KOI K (A)	(B)	KIO K	(C)	KJIK	(D)	KICK	
22.	UPKAR							
	(V) UPKAR	(B)	Ubkar	(C)	NPKAR	(D)	RAKPU	
23.	KID							
	DIK (A)	(B)	KID	(C)	DIK	(D)	KDI	
24.	SUBHAM							
	MYHBNS (A)	(B)	WAHBNZ	(C)	SUBHAM	(D)	MAHBUS	
25.	CHIDE							
	EDIHC (A)	(B)	EDIHO	(C)	EDIHC	(D)	CHIDE	
26.	HIKE							
	(A) HIKE	(B)	EKIH	(C)	ЕКІН	(D)	ЕХІН	
27.	CODE							
	(A) CODE	(B)	EDOC	(C)	EDOC	(D)	EDO C	
28.	CHICK							
	KO IH C (A)	(B)	KCIHC	(C)	KCIHC	(D)	CHICK	
29.	SANOO							
	OO NAS (V)	(B)	OO NA S	(C)	OONAS	(D)	SANOO	
30.	SUBOO							
	(A) SUBOO	(B)	OOBUS	(C)	SUBOO	(D)	OOBUS	
31.	ODD							
	(A) DDO	(B)	ODD	(C)	DDO	(D)	O DO	
32.	2. WATER							
	(V) WATER	(B)	RETAW	(C)	MATAR	(D)	SETAM	
33.	DK17C							
	(A) DKI7C	(B)	CZ IKO	(C)	C71KD	(D)	C 71KD	
34.	D6Z7F4							
	(V) D6Z7F4	(B)	4 FLZ 29 D	(C)	D6Z7F4	(D)	D6Z7744	
35.	ab45CD67							
	(V) ab 4 5 CD67	(B)	ab 45CD67	(C)	e b4 5 CD97	(D)	sb 45CD67	
36.	abc							
	(V) abc	(B)	abc	(C)	cba	(D)	a bc	
37.	01234							
	(V) 01234	(B)	43210	(C)	01324	(D)	01234	
38.	XYZ							
	(A) XXZ	(B)	ZXX	(C)	XZY	(D)	ZYX	
39.	MNOP							
	(A) WNOP	(B)	PONM	(C)	MNOP	(D)	MNOP	
40.	CDEF							
	(A) CDEŁ	(B)	CDEF	(C)	FEDC	(D)	FEDC	

Analogy

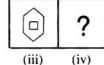
Analogy

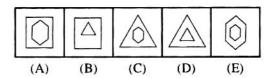
In this type of questions, there are two sets of figures. The figures on the left are 'Problem Figures' and those on the right are 'Answer figures'. Problem figures are presented in two units. The first unit contains two figures and the second unit contains one figure and a question mark in place of fourth figure. There is some relationship in the two figures of the first unit of the problem figure. The same relationship also exists between the two figures of the second unit of the problem figures. The candidate has to find out which one of the answer figure should be in place of the question mark.

There are many bases of the relation between the problem figure out of which some are following

Example

1. (ii)

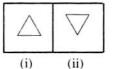


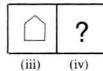


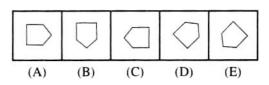
Solution

(A) From Pf₁ to Pf₂ the outer design becomes inner after reducing while the inner design becomes outer after enlarging. Therefore the same relation is found between Pf3 and Answer figure (A)

2.







Solution

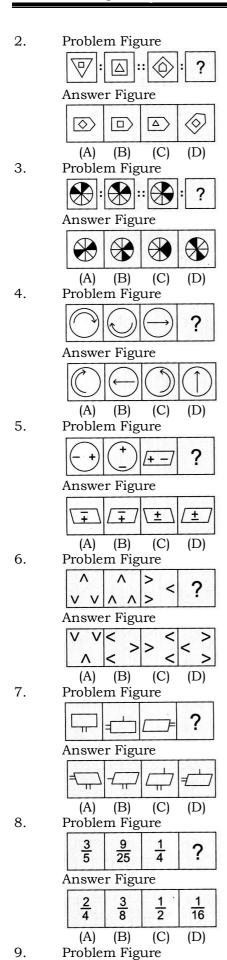
(B) From Pf₁ to Pf₂ the design is inverted. The same relation is found between Pf₃ and answer figure (B).

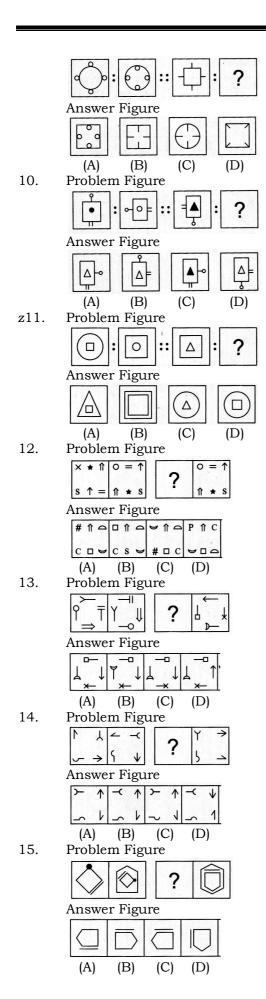
ASSIGNMENT-1

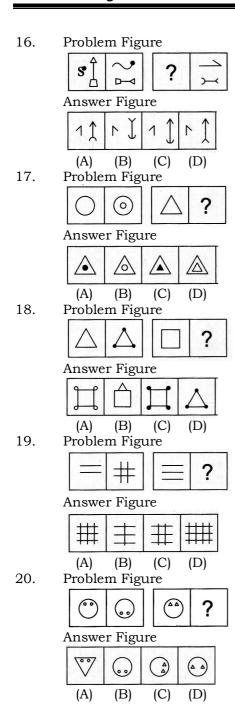
1. Problem Figure Answer Figure (B)

(C)

(D)

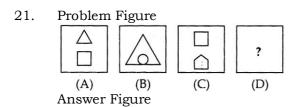




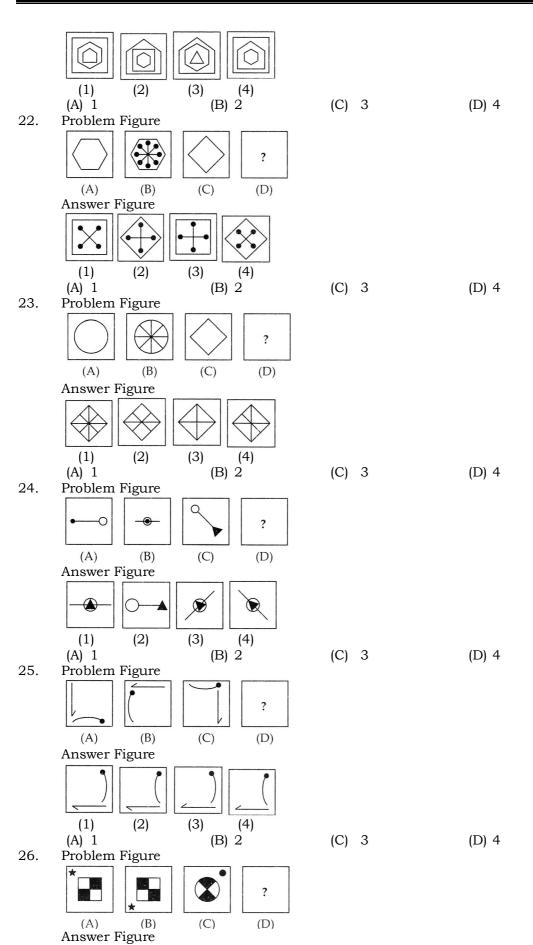


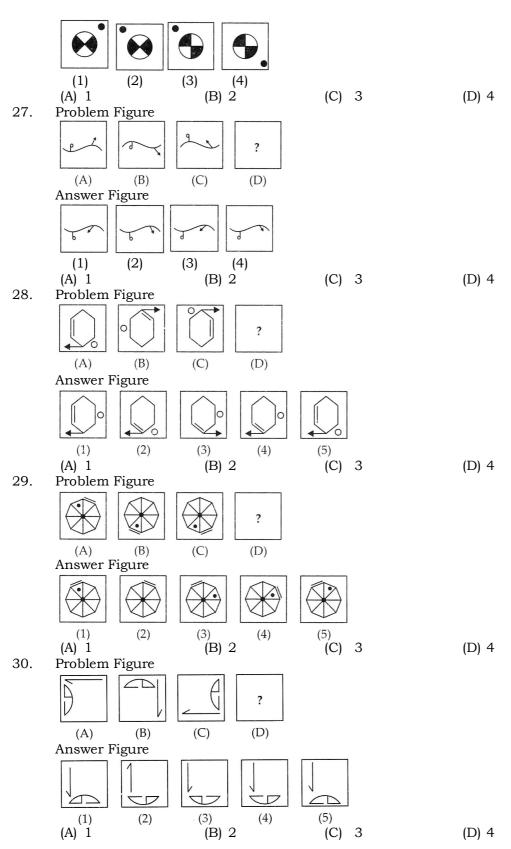
ASSIGNMENT-2

Direction: (21 to 30)Each of the following questions consists of two sets of figures. Figure A, B, C and D constitute the Problem Set while figures 1, 2, 3, 4 and 5 constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in figure (D). Select a suitable figure from the Answer Figure that would replace the question mark (?)

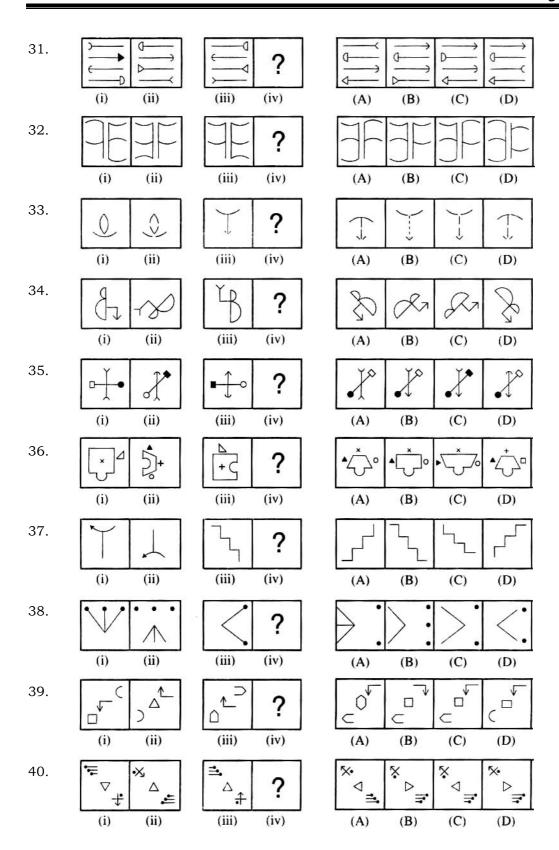


Mental Ability Test





Direction: (31 to 40) The figures on the left are 'Problem Figures' and those on the right are 'Answer figures'. Problem figures are presented in two units. The first unit contains two figures and the second unit contains one figure and a question mark in place of fourth figure. There is some relationship in the two figures of the first unit of the problem figure. The same relationship also exists between the two figures of the second unit of the problem figures.



ANSWER KEYS

			Answe	r Key -1.	Number	Series			
				Assignn	nent – 1				
1	2	3	4	5	6	7	8	9	10
В	A	D	В	В	С	D	В	D	С
11	12	13	14	15	16	17	18	19	20
С	С	A	С	A	С	В	В	С	С
				Assignn	nent – 2				
21	22	23	24	25	26	27	28	29	30
С	С	С	В	С	С	С	С	С	A
31	32	33	34	35	36	37	38	39	40
В	С	D	A	В	С	D	С	С	С
			PREVIOU	S YEAR	NTSE QU	ESTIONS			
41	42	43	44	45	46	47	48	49	50
D	В	В	С	В	С	В	A	В	С
51	52	53	54						
С	С	С	В						

	Answer Key – 2. Letter Series												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
D	С	A	С	D	В	В	В	С	A				
11	12	13	14	15	16	17	18	19	20				
A	В	В	D	В	С	D	A	В	D				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
D	С	В	D	D	С	С	С	D	A				
31	32	33	34	35	36	37	38	39	40				
D	С	D	С	В	С	С	В	D	D				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	48	50				
В	D	D	D	A	D	D	С	A	В				

	Answer Key - 3. Letter Repeating Series												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
A	В	A	В	D	В	D	С	В	D				
11	12	13	14	15	16	17	18	19	20				
D	D	A	В	В	D	С	В	A	С				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	D	В	D	A	D	В	С	С	A				
31	32	33	34	35	36	37	38	39	40				
В	В	A	A	С	С	A	С	A	В				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	48	50				
С	С	С	В	D	A	С	В	D	В				

	Answer Key – 4. Number Analogy												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В	В	С	A	D	Α	В	D	A	С				
11	12	13	14	15	16	17	18	19	20				
В	В	С	A	D	С	A	В	В	С				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
С	В	С	С	D	В	С	D	С	D				
31	32	33	34	35	36	37	38	39	40				
Α	D	С	A	С	С	D	Α	С	D				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
D	С	В	С	В	С	С	Α	A	D				

	Answer Key – 5. Letter Analogy												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
A	D	В	D	A	A	A	D	С	D				
11	12	13	14	15	16	17	18	19	20				
В	A	В	В	С	С	D	A	A	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
A	D	A	A	D	A	A	D	С	D				
31	32	33	34	35	36	37	38	39	40				
В	С	D	A	A	D	A	С	D	В				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
В	D	В	A	С	В	В	В	A	С				

	Answer Key – 6. Word Analogy												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
С	В	D	A	С	D	С	С	D	С				
11	12	13	14	15	16	17	18	19	20				
D	D	С	D	D	С	С	A	D	A				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
D	В	D	С	D	A	С	A	D	В				
31	32	33	34	35	36	37	38	39	40				
D	A	С	D	D	D	В	С	D	В				
			PREVIOU	JS YEAR	NTSE QU	ESTIONS							
41	42	43	44	45	46	47	48	49	50				
D	С	A	В	D	С	В	С	С	D				
51													
D													

	Answer Key – 7. Classification Number (Odd One Out Numbers)												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В	D	С	С	D	С	A	В	С	D				
11	12	13	14	15	16	17	18	19	20				
С	D	С	С	В	С	A	A	С	D				
	Assignment – 2												
21	22	23	24	25	26	27	28	29	30				
D	D	В	A	A	С	D	С	A	В				
31	32	33	34	35	36	37	38	39	40				
С	С	D	A	D	В	D	A	В	A				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
A	В	В	С	A	D	В	D	С	D				

	Answer Key – 8. Classification Letter (Odd One Out Letters)												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
D	С	Α	A	В	A	D	В	D	В				
11	12	13	14	15	16	17	18	19	20				
D	В	С	D	A	С	A	С	D	С				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
A	С	В	D	D	D	A	В	D	A				
31	32	33	34	35	36	37	38	39	40				
D	D	В	D	D	В	A	A	D	D				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
D	D	С	D	A	С	В	D	В	A				

	А	nswer Ke	y – 9. Cla	assificatio	on Word (Odd One	Out Wor	d)					
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
С	В	D	С	A	В	D	D	В	A				
11	12	13	14	15	16	17	18	19	20				
С	A	A	A	В	В	A	D	С	D				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
С	A	A	С	В	С	В	D	D	С				
31	32	33	34	35	36	37	38	39	40				
С	D	D	D	С	D	В	A	В	С				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
С	D	С	D	D	A	A	D	D	С				

	Answer Key – 10. Magic Square												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В	D	A	С	В	D	В	A	D	С				
11	12	13	14	15	16	17	18	19	20				
D	A	D	В	В	A	В	С	С	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
С	D	D	С	D	С	С	A	D	В				
31	32	33	34	35	36	37	38	39	40				
A	D	В	С	D	D	D	A	В	С				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
С	С	В	В	D	D	С	D	A	A				

	Answer Key – 11. Magic Square												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
Α	В	С	D	С	В	A	D	A	С				
11	12	13	14	15	16	17	18	19	20				
D	A	С	В	A	D	A	С	A	С				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	D	С	В	D	В	D	A	С	В				
31	32	33	34	35	36	37	38	39	40				
С	В	A	D	В	С	С	A	В	A				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
D	A	В	A	D	D	С	A	В	A				

			Answer K	ley – 12. l	Inserting	Numbers	3						
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
D	С	В	A	A	С	В	A	С	A				
11	12	13	14	15	16	17	18	19	20				
С	В	С	D	С	D	D	С	С	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
D	С	В	D	A	В	D	В	В	В				
31	32	33	34	35	36	37	38	39	40				
Α	С	В	В	D	С	A	D	С	A				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
С	С	C	С	В	C	A	В	Α	С				

	Answer Key – 13. Venn Diagram													
	Assignment – 1													
1	2	3	4	5	6	7	8	9	10					
С	A	В	D	С	D	A	В	D	В					
11	12	13	14	15	16	17	18	19	20					
Α	D	В	D	С	В	В	Α	В	С					
	Assignment – 2													
21	22	23	24	25	26	27	28	29	30					
В	D	D	В	С	D	С	D	A	D					
31	32	33	34	35	36	37	38	39	40					
С	D	В	В	D	A	С	D	В	В					
Competitive Corner														
41	42	43	44	45	46	47	48	49	50					
В	В	Α	В	D	С	В	С	Α	В					

	Answer Key – 14. Blood Relation												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
A	С	С	D	D	В	В	D	В	В				
11	12	13	14	15	16	17	18	19	20				
A	В	В	С	D	С	В	В	В	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	В	D	В	D	D	A	A	A	A				
31	32	33	34	35	36	37	38	39	40				
В	D	С	С	В	A	D	С	A	В				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
A	A	A	С	D	С	В	В	D	С				

			Answer	Key - 15	. Directio	n Sense							
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
D	A	D	A	D	В	D	A	В	В				
11	12	13	14	15	16	17	18	19	20				
Α	В	С	A	D	D	С	С	A	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	С	D	С	D	A	A	D	В	В				
31	32	33	34	35	36	37	38	39	40				
Α	D	С	С	A	A	A	D	С	В				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
D	С	С	A	A	A	В	D	D	A				

		Ans	wer Key	- 16. Mat	hematica	al Operat	ions						
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
D	С	A	D	D	A	D	В	С	A				
11	12	13	14	15	16	17	18	19	20				
С	D	D	С	В	A	A	В	С	D				
	Assignment – 2												
21	22	23	24	25	26	27	28	29	30				
С	D	D	С	D	В	В	D	С	В				
31	32	33	34	35	36	37	38	39	40				
D	С	A	С	D	В	D	A	D	A				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
В	D	В	С	С	В	В	D	В	С				

	Answer Key – 17. Coding Decoding Test												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
С	С	A	A	A	D	С	A	D	A				
11	12	13	14	15	16	17	18	19	20				
В	D	A	D	В	В	В	С	A	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	D	A	В	A	D	A	В	D	Α				
31	32	33	34	35	36	37	38	39	40				
D	С	D	D	A	A	В	С	В	С				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
С	В	С	В	С	D	В	D	A	В				

		A	nswer Ke	y – 18. N	umber ar	ıd Rankiı	ıg						
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В	D	D	С	A	В	D	В	В	A				
11	12	13	14	15	16	17	18	19	20				
С	С	В	D	С	В	D	A	С	С				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
С	С	В	A	В	D	С	В	С	С				
31	32	33	34	35	36	37	38	39	40				
В	D	D	С	D	С	С	В	С	D				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
Α	В	В	В	A	С	A	В	С	D				

	Answer Key – 19. Alphabet Test letter change												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В	D	A	В	В	В	D	С	С	D				
11	12	13	14	15	16	17	18	19	20				
A	В	В	D	A	A	D	С	A	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
A	D	С	С	D	В	С	С	В	В				
31	32	33	34	35	36	37	38	39	40				
С	D	D	С	D	В	В	D	С	D				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
С	В	С	A	С	D	В	С	С	В				

	Answer Key – 20. Logical Sequence of Words												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
D	С	С	В	D	В	В	D	В	D				
11	12	13	14	15	16	17	18	19	20				
D	В	D	С	С	С	В	В	В	D				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
С	С	A	D	A	С	С	С	С	С				
31	32	33	34	35	36	37	38	39	40				
В	В	В	С	A	В	С	В	В	В				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
A	С	В	С	В	D	С	В	A	D				

		Ans	swer Key	- 21. Ari	thmetica	1 Reason	ing						
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В	D	A	A	A	A	D	D	A	D				
11	12	13	14	15	16	17	18	19	20				
D	D	D	D	D	D	В	С	С	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
С	В	В	A	A	В	D	D	С	В				
31	32	33	34	35	36	37	38	39	40				
С	D	В	A	В	С	D	В	A	D				
	Competition Corner												
41	42	43	44	45	46	47	48	49	50				
Α	В	С	A	В	D	D	A	D	С				

	Answer Key – 22 Alphabet Test												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
С	В	D	D	В	В	В	В	В	D				
11	12	13	14	15	16	17	18	19	20				
D	С	D	С	С	С	В	В	В	В				
	Assignment – 2												
21	22	23	24	25	26	27	28	29	30				
В	С	С	С	D	A	С	С	В	D				
31	32	33	34	35	36	37	38	39	40				
В	В	D	D	D	С	D	D	С	С				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
С	A	В	С	В	A	С	D	D	В				

	Answer Key – 23. Analytical Reasoning												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
D	С	D	D	D	D	С	A	С	A				
11	12	13	14	15	16	17	18	19	20				
D	D	A	D	С	С	В	С	С	D				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
A	D	A	В	С	С	С	D	D	A				
31	32	33	34	35	36	37	38	39	40				
D	A	В	D	D	С	A	С	С	D				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
В	В	С	В	С	С	A	В	A	В				

		A	nswer Ke	y – 24. S	itting Ar	rangemer	ıt						
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
A	С	В	С	В	D	D	С	С	С				
11	12	13	14	15	16	17	18	19	20				
D	В	С	В	A	С	В	D	D	С				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	D	D	С	D	В	A	С	D	A				
31	32	33	34	35	36	37	38	39	40				
В	С	D	С	С	D	В	С	С	С				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
D	A	D	D	С	В	С	С	В	A				

			Answ	er Key –	25. Syllo	gism							
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
Α	D	A	С	D	D	A	В	D	D				
11	12	13	14	15	16	17	18	19	20				
Α													
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
D	D	В	A	D	В	С	D	В	С				
31	32	33	34	35	36	37	38	39	40				
D	С	A	D	С	В	С	D	С	В				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48	49	50				
D	С	A	С	D	В	A	В	С	A				

			Ansv	ver Key -	26. Cale	ndar								
	Assignment – 1													
1	2	3	4	5	6	7	8	9	10					
D	A	С	В	С	В	A	A	D	A					
11	12	13	14	15	16	17	18	19	20					
С	D	В	D	С	D	С	С	В	A					
	Assignment – 2													
21	22	23	24	25	26	27	28	29	30					
С	A	С	D	D	D	A	В	В	С					
31	32	33	34	35	36	37	38	39	40					
D	D	A	A	D	В	С	В	D	С					
	PREVIOUS YEAR NTSE QUESTIONS													
41	42	43	44	45	46	47	48	49	50					
D	В	С	В	A	С	С	В	В	С					

			An	swer Key	- 27. Clo	ock							
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
A	D	С	В	В	В	С	A	С	A				
11	12	13	14	15	16	17	18	19	20				
В	D	С	С	С	Α	D	В	Α	В				
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	A	В	С	D	С	A	В	A	В				
31	32	33	34	35	36	37	38	39	40				
С	С	Α	В	Α	A	С	С	В	С				
			PREVIO	US YEAR	NTSE QU	ESTIONS	3						
41	42	43	44	45	46	47	48	49	50				
В	С	В	В	D	D	D	D	D	В				

			Answei	Key – 28	3. Cube a	nd Dice						
				Assignn	nent – 1							
1	2	3	4	5	6	7	8	9	10			
С	D	A	С	D	В	В	A	С	D			
11	12	13	14	15	16	17	18	19	20			
С	С	A	A	С	A	С	A	В	D			
	Assignment – 2											
21	22	23	24	25	26	27	28	29	30			
A	D	С	D	С	A	D	D	С	В			
31	32	33	34	35	36	37	38	39	40			
В	A	В	D	A	С	В	D	A	С			
	Assignment – 3											
41	42	43	44	45	46	47	48	49	50			
A	С	С	В	A	В	С	С	В	В			

	Answer Key – 29. Counting Figure												
				Assignn	nent – 1								
1	2	3	4	5	6	7	8	9	10				
С	A	D	В	D	В	С	A	С	С				
11	12	13	14	15	16	17	18	19	20				
D	A	D	С	D	В	С	С	D	С				
	Assignment – 2												
21	22	23	24	25	26	27	28	29	30				
С	В	В	С	С	С	D	A	С	В				
31	32	33	34	35	36	37	38	39	40				
С	A	С	A	С	D	В	A	С	В				
				Assignn	nent – 3								
41	42	43	44	45									
A	D	В	В	A									

	Answer Key – 30. Mirror Images												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В	В	D	D	В	С	D	С	A	D				
11	12	13	14	15	16	17	18	19	20				
D													
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	D	С	В	D	D	A	С	D	С				
31	31 32 33 34 35 36 37 38 39 40												
D	С	D	В	D	D	С	A	D	В				

	Answer Key – 31. Classification													
	Assignment – 1													
1	2	3	4	5	6	7	8	9	10					
В	С	D	D	A	A	С	D	С	С					
11	12	13	14	15	16	17	18	19	20					
D	С	D	A	С	С	A	С	С	D					
	Assignment – 2													
21	22	23	24	25	26	27	28	29	30					
D	D	В	D	D	D	A	В	D	D					
31	32	33	34	35	36	37	38	39	40					
С	В	В	D	D	D	A	С	С	Α					
	PREVIOUS YEAR NTSE QUESTIONS													
41	42	43	44	45	46	47	48	49						
В	С	Α	В	D	В	С	D	В						

	Answer Key – 32. Series												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
С	D	В	В	В	D	С	D	С	A				
11	12	13	14	15	16	17	18	19	20				
D													
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	D	В	A	A	D	С	С	С	A				
31	31 32 33 34 35 36 37 38 39 40												
D	A	D	В	A	С	С	A	A	D				

	Answer Key – 33. Folding Paper Cutting & Transparent Paper Folding												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В	B D A B B C C D												
11	11 12 13 14 15 16 17 18 19 20												
С													
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
D	С	D	D	С	В	A	A	D	С				
31	31 32 33 34 35 36 37 38 39 40												
С	C C B A B B D D B B												

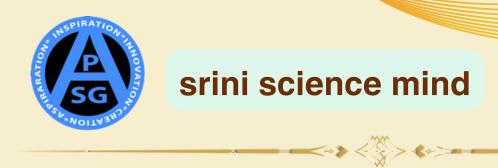
	Answer Key – 34. Formation of Figure Analysis												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
В													
11	11 12 13 14 15 16 17 18 19 20												
В													
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
В	С	С	A	D	D	В	В	С	В				
31	31 32 33 34 35 36 37 38 39 40												
В	С	A	A	В	C	С	С	В	В				

	Answer Key – 35. Dot Situations												
	Assignment – 1												
1	2	3	4	5	6	7	8	9	10				
A													
11	11 12 13 14 15 16 17 18 19 20												
A													
				Assignn	nent – 2								
21	22	23	24	25	26	27	28	29	30				
D	A	В	A	D	A	A	В	D	С				
31	31 32 33 34 35 36 37 38 39 40												
В	В	С	A	D	A	D	A	D	D				

	Answer Key – 36. Embedded Figure												
	Assignment - 1												
1	2	3	4	5	6	7	8	9	10				
D	С	D	A	В	D	D	В	A	В				
11	12	13	14	15	16	17	18	19	20				
A B C C D C D A B D													
	Assignment – 2												
21	22	23	24	25	26	27	28	29	30				
В	С	В	В	С	A	D	В	С	С				
31	32	33	34	35	36	37	38	39	40				
D	D	D	A	D	D	D	D	D	D				
	PREVIOUS YEAR NTSE QUESTIONS												
41	42	43	44	45	46	47	48						
A	С	В	A	С	A	В	В						

Answer Key – 37. Water Image											
Assignment – 1											
1	2	3	4	5	6	7	8	9	10		
В	A	D	С	В	D	С	С	В	В		
11	12	13	14	15	16	17	18	19	20		
Α	A	С	D	С	A	A	С	В	Α		
Assignment – 2											
21	22	23	24	25	26	27	28	29	30		
D	A	В	С	D	A	A	D	A	Α		
31	32	33	34	35	36	37	38	39	40		
В	A	A	D	В	A	D	В	С	Α		

Answer Key - 38. Analogy											
Assignment – 1											
1	2	3	4	5	6	7	8	9	10		
A	A	В	В	В	В	В	D	В	A		
11	12	13	14	15	16	17	18	19	20		
Α	A	С	D	5	D	D	С	A	D		
Assignment – 2											
21	22	23	24	25	26	27	28	29	30		
В	D	A	D	С	В	A	D	С	D		
31	32	33	34	35	36	37	38	39	40		
D	С	C	С	В	В	A	С	С	D		



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