

**Model paper-1**  
**SUMMATIVE ASSESSMENT-I**  
**(2019-2020)**

**GENERAL SCIENCE – Paper-1**  
**(PHYSICAL SCIENCES)**

(English medium)

PART-A & B

( Max. Marks: 40)

**Class: IX**

**Time: 2.45 Hrs.**

**Instructions:**

1. 15 Minutes are allotted for reading the questions paper(Part A&B) in addition to 2.30 hours for writing the answers.
2. Part-A answers should be written in a separate answer book.
3. There are three Sections in Part-A.
4. Answer all the questions.
5. Every answer should be visible and legible.
6. There is internal choice in Section-III
7. Part- A & B should be given at the beginning of the exam only.

**Section-I**

**Note:- 1. Answer all the questions**

**2. Each question carries 1 Mark**

**4x1=4**

**3. Answer each question in 1 or 2 sentences.**

1. Define acceleration
2. A vehicle of mass 300 Kg travels at a velocity of 90 Km/h. Find its momentum
3. How do we separate the salt and ammonium chloride ?
4. Mohit said "H<sub>2</sub> differs from 2H". Justify

**Section-II**

**Note:- 1. Answer all the questions**

**2. Each question carries 2 Mark**

**5X2=10**

5. Why do we apply paint on iron articles?
6. Frame any two questions to understand the concept of "Isotopes"
7. Luggage kept on the roof of a bus is tied with a rope. Explain the reason
8. What are the factors affecting rate of dissolving?
9. Distinguish between speed and velocity

**Section-III**

**Note:- 1. Answer all the questions**

**2. Each question carries 4 Marks**

**4X4=16**

10. Describe an activity to find the acceleration and velocity of an object moving on inclined track

**(OR)**

State Newton's third law of motion? Give examples in our daily life

11. Fill in the missing information in the following table

Name	Symbol	Atomic Number Z	Mass Number A	No. of Protons	No. of Electrons	No. of Neutrons
Oxygen	$^{16}_8\text{O}$		16			
	$^{32}_{16}\text{S}$					
Beryllium						
		12	24			

(OR)

Classify the following into elements, compounds and mixtures.

- a) Sodium   b) Soil   c) Sugar solution   d) Silver   e) Calcium carbonate   f) Tin  
g) Silicon   h) Coal   i) Air   j) Soap   k) Methane   l) Carbon dioxide   m) Blood

12. Explain the process and precaution in verifying law of conservation of mass?

(OR)

Balance the following chemical equations

- a)  $\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$   
b)  $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$   
c)  $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$   
d)  $\text{Al} + \text{Fe}_2\text{O}_3 \rightarrow \text{Al}_2\text{O}_3 + \text{Fe}$

13. Bhavishya participating in school running competition. Record the following values

Time (Second)	Distance (Metre)
0	0
1	1
2	4
3	9
4	16

Draw the Distance vs Time graph? What is the shape of the graph? What type of motion is this?

(OR)

Name the instrument used to separate immiscible liquids. Draw a neat diagram of a taking kerosene and water as immiscible liquids?

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PART-B

( Max. Marks: 10)

Class: IX

Name of the student: \_\_\_\_\_ Roll No: \_\_\_\_\_

**Note:**

1. Choose the correct answers from the options given below and write them in CAPITAL letter.

2. Each Question carries ½ mark

14. Speed of a body at any particular instance is known as ( )  
A) Uniform speed B) Variable speed C) Average speed D) Instantaneous speed
15. Effecting of action of non-zero net force on an object is explained by ( )  
A) Newton's first law of motion B) Newton's second law of motion  
C) Newton's third law of motion D) Law of conservation of mass
16. Newton-sec is the unit of ( )  
A) Momentum B) Inertia C) Impulse D) Force
17. Molar mass of water ( )  
A) 16 U B) 18 U C) 20 U D) 22 U
18. P: The symbol of Sodium atom is Na  
Q: Sodium element has symbol based on Latin name is Natrium. Choose the correct answer ( )  
A) P, Q both are true B) P is true, Q is false  
C) P is false, Q is true D) P, Q both are false
19. Valencies of Oxygen and Magnesium are 2 and 2 respectively. The formula of Magnesium Oxide molecule formed by these two atoms ( )  
A)  $Mg_2O$  B)  $MgO_2$  C)  $MgO$  D)  $Mg_2O_3$
20. Matching the following ( )
- | Column-1         | Column-2         |
|------------------|------------------|
| a) Proton        | 1) $e^-$         |
| b) Electron      | 2) $n^0$         |
| c) Neutron       | 3) $p^+$         |
| A) a-2, b-1, c-3 | B) a-3, b-1, c-2 |
|                  | C) a-1, b-2, c-3 |
|                  | D) a-2, b-3, c-1 |
21. Assertion(A): Chips packets are filled with Vitamin "C" and Vitamin "E"  
Reason(R): Vitamin "C" and Vitamin "E" prevents oxidation ( )  
A) A, R are correct and R is support to A B) A, R are correct and R is not support to A  
C) A is correct, R is incorrect D) A is incorrect, R is correct
22.  $Zn + 2HCl \rightarrow ZnCl_2 + H_2$  is an example of ( )  
A) Chemical combination B) Chemical decomposition  
C) Chemical displacement D) Chemical double displacement

23. Brown coloured metal powder is changing into black colour on heating, that metal powder may be \_\_\_\_\_ powder ( )  
A) Iron      B) Aluminum      C) Copper      D) Silver
24. What do you notice when water added to quick lime? ( )  
A) Released heat      B) Released  $H_2$       C) Absorbs heat      D) Released  $O_2$
25. The property of having eight electrons in outer most orbit is called ( )  
A) Atomicity      B) Valency      C) Octet      D) Inertness
26. If  $n=3$ , it represents the \_\_\_\_\_ shell ( )  
A) K      B) L      C) M      D) N
27. Which one is least inertia ( )  
A) pen      B) book      C) cycle      D) Bike
28. Rutherford's model is known as ( )  
A) plum pudding model      B) nuclear model      C) watermelon model      D) elliptical model
29. Maximum number of electrons that can be accommodated in L-shell is ( )  
A) 2      B) 8      C) 10      D) 18
30. Which of the following is a wrong statement ? ( )  
A) An atom is electrically neutral      B) Valency is the combining capacity of an atom  
C) Mass of the Proton is  $1.673 \times 10^{-27}$  kg      D) Least energy shell is N
31. If we use iodized salt in our daily life, we can be prevented by the disease ( )  
A) Cancer      B) Goitre      C) skin      D) Ulcer
32. The common name of Hydrogen monoxide is ( )  
A) Water      B) Salt      C) Washing soda      D) Baking soda
33. Atomicity of Ozone is ( )  
A) 1      B) 2      C) 3      D) 4