

# Question paper pattern of physical science 2019 -2020

- Question paper contains **four** sections and **33** questions
- **Section -i** has objective type questions.
- **Section-ii** has very short answer questions.
- **Section –iii** has short answer questions .
- **Section-iv** has essay questions.
- There is an internal choice in section –iv.
- Answer should be written in a given answer booklet.
- Total time period is **2.45 hours**
- **15** minutes are given for reading the question paper and **2.30** hours given for answering questions

# Question wise weightage table

S.No	Type of questions	Number of questions	Marks allotted	Total marks	percentage
1.	Objective questions	12	1/2	6	12
2.	Very short answer questions	8	1	8	16
3	Short answer question	8	2	16	24
4	Essay questions	5	4	20	40
	<b>Total</b>	<b>33</b>		<b>50</b>	<b>100</b>

# Objective type questions

(Answer should be one word/phrase, no choice )

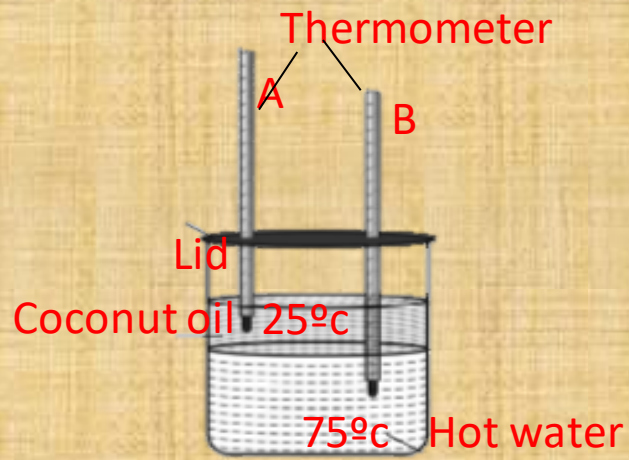
12 questions each question carries  $\frac{1}{2}$  mark Total 6 Marks

Academic standards: AS1,AS2,AS3,AS4

- Multiple choice questions
- Very very short answer questions (one word answer)
- assumptions and reason type questions
- Matching
- Choose the correct statement type questions
- Information based questions

# Example :

- What is the image distance in the normal human eye ?
- Find out the element in 3<sup>rd</sup> period and 15<sup>th</sup> group  
A. Magnesium B. Silicon C. phosphorus D. Oxygen
- Choose the correct statement from the following  
Platinum occurs in free state .  
Platinum is a least reactive metal.  
Platinum turns into vapour at low temperature.
- Take 2ml of NaOH in a test tube add two drops of phenolphthalein solution and then add few drops of dil.HCl to it what is your observation with respect to colour ?



From the given figure in which thermometer mercury level increases ?

- Choose the suitable answer of section-B with section-A

section-A

1. formula for refractive index

2. Possible values of refractive index

section-B

P)  $V/c$

Q)  $C/v$

R)  $>1$

S)  $<1$

- P: The electro positivity is increases in periods from left to right.
- Q: The electro positivity is decreases in groups from top to bottom.

A) P correct Q not correct

B) P correct Q correct

C) P not correct Q correct

D) P not correct Q not correct

- The phenomenon of possessing same molecular formula but different properties by the compound is known as “isomerism”

Ex:  $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_3$

(based on the above information answer the following questions)

1. Name the above compound?

2. Write the isomer of the above compound ?

# Objective type questions

(Answer should be one word/phrase, no choice )

12 questions each question carries  $\frac{1}{2}$  mark Total 6 Marks

Academic standards: AS1,AS2,AS3,AS4

- Multiple choice questions
- Very very short answer questions (one word answer)
- assumptions and reason type questions
- Matching
- Choose the correct statement type questions
- Information based questions

# Very short answer questions

( Answer should be one or two sentences ,no choice )

8 questions each question carries 1 mark Total 8 marks Each question should be answered no choice. Academic standards: AS1,AS3,AS5,AS6

Example:

- Name the phenomenon involved in the function of Optical fibre ?
- Why do elements form chemical bonds?
- Draw the direction of magnetic lines of force, assuming that the current is flowing into the page ?
- Mention the application of termite process in daily life?
- Etc.....



# Short answer questions

(Answer in two to four sentences, no choice)

8 questions each question carries 2 mark Total 16 marks

Each question should be answered no choice.

**Academic standards:** AS1,AS2,AS3,AS4,AS6

Example:

- When Mohan viewed white light through a transparent scale, he observed some colours. Predict and write phenomenon involved in his observation?
- Write the experimental procedure to test carbon dioxide gas?

- A boy who is suffering from eye defect has been given a prescription as  $-2D$ . Based on the information given, answer the following questions.
  - a) Identifying the eye defect he is suffering ?
  - b) Write the nature and focal length of the lens?
- why do valence electrons involve in bond formation, than electrons of inner shells

# Essay questions

(Answer in eight to ten sentences internal choice)

5 questions each question carries 4 mark Total 20 marks

Each question has internal choice.

Academic standards: AS1,AS3,AS4,AS5,

Example:

- Write an experimental procedure to obtain the relation between angle of incidence and angle of reflection.
- (or)
- How can you verify that current carrying wire produces a magnetic field with the help of an experiment ?

- Draw a ray diagram of the following positions of object Infront of a convex lens mention the characteristics of the image.

a) Object is placed beyond  $2F_2$  .

b)Object is placed between focal point and optic center .

(or)

- Draw a neat diagram of forth floatation process for the concentration of sulphide ore why we add pine oil to the mixture in this process