



Total No. of Printed Pages : 4

Question Booklet Sl. No.

GENERAL SCIENCE, Paper – I
(Physical Science)
 (English Version)

Time : 2 Hours

Max. Marks : 50

Instructions :

- 1) Question paper consists of 4 Sections and 17 Questions.
- 2) Internal choice is there only for Q. No. 12 in Section – III and for **all** the questions in Section – IV.
- 3) In the duration of 2 hours, 15 minutes of time is allotted to read the question paper.
- 4) **All** answers should be written in the answer booklet only. 
- 5) Answer should be written **neatly** and **legibly**.

SECTION – I**(8×1=8)****Note :** 1) Answer **all** the questions. 2) **Each** question carries **1** mark. 

1. Predict and write why preparation of lime water is considered as an exothermic reaction. 
2. Acidic nature of a substance is due to the formation of _____ ions in solution. 
3. Observe the following table :

Substance	Lemon juice	Blood	Milk of magnesia
pH value	2.2	7.4	10

In the above table which is strong acid ? 

4. Which is the most ductile metal in nature ? 

5. Write any one use of vinegar.



6. The human eye forms the image of an object at its _____

- a) Cornea b) Iris c) Pupil d) Retina

7. Draw the symbol of an 'Ammeter'.

8. What is the commercial unit of electric energy ?



SECTION - II

(3×2=6)

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

2) **Each** question carries 2 marks.

9. Fill the table :

Class of compounds	Formula of functional group
1. Alcohol	_____
2. _____	$\begin{array}{c} \text{O} \\ \\ -\text{C}-\text{OH} \end{array}$



10. Frame any two questions to understand the concept of refraction.

11. Predict and write why the tungsten is used as filament in electric lamps ?



SECTION - III

(3×4=12)

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

2) **Each** question carries 4 marks.

12. Draw **any one** of the following diagrams.

A) Draw the ray diagrams of image formed when the object is placed in front of a concave mirror in the following positions :

- i) at 'C'
ii) between P and F



B) Draw the diagram which shows that acid solution in water conducts electricity.

②

13. Give two important uses of each of the following :

- 1) Bleaching powder 
- 2) Baking soda 

14.

Material medium	Air	Rock salt	Water	Diamond	Benzene
Refractive index	1.0003	1.54	1.33	2.42	1.50

Observe the above table and answer the following questions. 

- i) Which medium has highest optical density ?
- ii) In which medium speed of light is minimum ?
- iii) In which medium the light travels faster ?
- iv) Which medium has least optical density ?

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SECTION – IV

(3×8=24)

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



2) **Each** question carries **8** marks.

3) **Each** question has an **internal** choice.

15. Explain what is Myopia and how can you rectify it.

OR



Define the following terms :

- i) Electric current
- ii) Potential difference
- iii) Electric Resistance
- iv) Electric power.

③

P.T.O.



16. Write the balanced chemical equations for the following reactions.

- a) Calcium hydroxide + Carbon dioxide \rightarrow Calcium carbonate + Water 
- b) Zinc + Silver nitrate \rightarrow Zinc nitrate + Silver 
- c) Aluminium + Copper chloride \rightarrow Aluminium chloride + Copper
- d) Barium chloride + Potassium sulphate \rightarrow Barium sulphate + Potassium chloride

OR

Explain the mechanism of the cleaning action of soaps. 

17. Explain the experimental procedure to show that a current-carrying conductor placed in a magnetic field experiences force on it. 

OR

 Explain the experimental procedure to investigate the conditions under which iron rusts.
