Total No. of Printed Pages: 4

Question Booklet St. 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					
5.	Write any one use of vinegar.			858 2502		
6.	The human eye forms	the image of an	object at its			
	\	b) Iris	c) Pupil	d) Retina		
7.	Draw the symbol of a	n 'Ammeter'.	,			
8.	What is the commerci	al unit of electri	c energy?		; ·	
	# ***		SECTION - II	, re-	(3×2=6)	
No	ote: 1) Answer all th	ne questions.		ŕ		
	2) Each question	n carries 2 marl	cs.			
9.	Fill the table:					
	Class of compounds	Formula of	functional group]		
	1. Alcohol		_	1		
	2	О - С - ОН				
10.	Frame any two questi	ons to understan	d the concept of re	fraction.		
11.	Predict and write why	the tungsten is	used as filament in	electric lamps ?		
036	2.2			•		
1	ស្ត		SECTION – III		(3×4=12)	
No	ote: 1) Answer all th	e questions.				
	2) Each question	_	cs.			
12.]	Draw any one of the f	ollowing diagra	ms.			
	mirror in the follo			bject is placed in front of	of a concave	
	i) at 'C'ii) between P and	i F			ā s	

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



- 13. Give two important uses of each of the following:
 - Bleaching powder



2) Baking soda

l	4.
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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?



SECTION - IV

 $(3 \times 8 = 24)$

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.



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

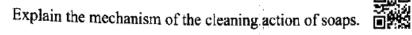




 a) Calcium hydroxide + Carbon dioxide → Calcium carbonate + Water a) Calcium hydroxide + Carbon dioxide → Calcium b) Zinc + Silver nitrate → Zinc nitrate + Silver

- c) Aluminium + Copper chloride → Aluminium chloride + Copper
- d) Barium chloride + Potassium sulphate → Barium sulphate + Potassium chloride

OR





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





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