

SUMMATIVE -1
GENERAL SCIENCE , Paper – I
(Physical Sciences)
(English Version)

Time: 3 Hours

Parts A and B

Maximum Marks : 50

Instructions :

1. ½ hour is allotted for reading the question paper.
2. Answer the questions under Part-A on a separate answer booklet.
3. Write the answers to the questions under Part-B on the question paper itself and attach it to the answer booklet of Part-A.

PART-B

This Question paper contains 4 printed pages.

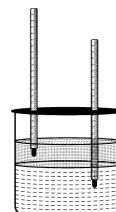
Attach **Part-B** question paper to the main answer booklet of **Part-A**.

Time : ½ hours

Marks : 15

Instructions :

1. Answer **all** questions.
 2. Each question carries ½ marks.
 3. Answers are to be written in the question paper only.
 4. Marks will not be awarded in case of any overwriting and rewriting or erased answers.
- I.** Write the 'CAPITAL LETTER' showing the correct answer for the following questions in the brackets provided against them. **20 x ½ = 10**
1. Which is the warming process []
(A) Evaporation (B) Boiling
(C) Freezing (D) All the above
 2. The angle of incidence, for the incident ray which passes through the centre of curvature of a concave mirror is []
(A) 0° (B) 45°
(C) 90° (D) 180°
 3. Sreenu took 100 ml of water at 60°C in a beaker. He poured 100 ml of coconut oil at 40°C on the water. He arranged two thermometers as shown in figure. Specific heat values of coconut oil and water are different. At equilibrium state []
(A) Temperature are same in both thermometers
(B) Temperature is more in coconut oil
(C) Temperature is more in water
(D) Temperature in both thermometers is 30°C



4. The laws of reflection of light are valid for []
 (A) Plane mirrors only (B) Convex mirrors only
 (C) Concave mirrors only (D) All reflective surfaces
5. Refractive index of Air is []
 (A) 1.03 (B) 1.33
 (C) 1.31 (D) 1.00
6. Copper articles turns into due to formation of patina. []
 (A) Black (B) Green
 (C) Red (D) Brown
7. Combination of Brass is []
 (A) Zn + Cu (B) Fe + Zn
 (C) Sn + Cu (D) Cr + Fe
8. Highly inflammable gas []
 (A) Oxygen (B) Carbon di oxide
 (C) Nitrogen (D) Hydrogen
9. Hydronium ion []
 (A) H^+ (B) H_3O^+
 (C) NH_4^+ (D) OH^-
10. Colour of Methyl orange solution in Potassium Hydroxide solution []
 (A) Pink (B) Orange
 (C) Yellow (D) Pale green
11. The absolute temperature (0 K) value in Celsius scale is °C. []
 (A) 273 (B) 0
 (C) 100 (D) -273
12. The distance between centre of curvature and focus of a concave []
 mirror is 20 cm. Then the focal length is cm.
 (A) 20 (B) 0
 (C) 40 (D) 30
13. To get the image of same size to that of the object, we have to place []
 the object at (Concave mirror)
 (A) focus (B) centre of curvature
 (C) beyond centre of curvature (D) between focus and pole
14. Snell's law formula is []
 (A) $n_1 \cdot \sin r = n_2 \cdot \sin i$ (B) $n_2 \cdot \sin i = n_1 \cdot \sin r$
 (C) $n_1 \cdot \sin i = n_2 \cdot \sin r$ (D) $n_1 \cdot \sin i = n_1 \cdot \sin r$
15. Formula of glucose is []
 (A) $C_6H_6O_6$ (B) $C_6H_{12}O_6$
 (C) $C_{12}H_{22}O_{12}$ (D) $C_{12}H_{22}O_{11}$

16. Gas is used in Potato chips packets. []
 (A) Oxygen (B) Nitrogen
 (C) Sulphur dioxide (D) Carbon dioxide
17. Chemical equation for burning of Magnesium ribbon is []

 (A) $Mg + O_2 \rightarrow MgO_2$ (B) $2Mg + O_2 \rightarrow MgO$
 (C) $Mg + O \rightarrow MgO$ (D) $2Mg + O_2 \rightarrow 2MgO$
18. acid present in Lemon. []
 (A) Hydrochloric acid (B) Tartaric acid
 (C) Citric acid (D) Malic acid
19. indicators give different smell in acid and base []
 solutions.
 (A) Olfactory indicators (B) Colour indicators
 (C) Natural indicators (D) Synthetic indicators
20. If milk converts to curd, ten P^H value []
 (A) Increases (B) Decreases
 (C) No change (D) Can't say

II. Fill in the following blanks with suitable answers. $5 \times \frac{1}{2} = 2\frac{1}{2}$
 Each question carries $\frac{1}{2}$ marks.

21. Can we take a photograph of mirage ? (Yes / No)
22. The relation between R and f of a concave mirror is
23. If $m = -1.5$, the mirror is
24. The speed of light in denser medium is than the speed
 of light in air.
25. Fermat principle :
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III. Match the following by writing the letter of the correct answer in the brackets,
 choosing from **Group-B**. $5 \times \frac{1}{2} = 2\frac{1}{2}$
 Each question carries $\frac{1}{2}$ marks.

- | (i) Group-A | | Group-B |
|---------------------------|---------|----------------------|
| 26. Antiseptic | [] | (G) Sodium chloride |
| 27. Cleaning agent | [] | (H) Bleaching powder |
| 28. Disinfection | [] | (I) Washing soda |
| 29. Plaster for fractures | [] | (J) Plaster of Paris |
| 30. Common salt | [] | (K) Baking soda |
| | | (L) Caustic soda |