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MODEL PAPER-I SUMMATIVE ASSESSMENT **PHYSICAL SCIENCE-PAPER-1**

(English Medum) (Max.Marks:50)

Time: 2.45 Hrs.

Class: X

Instructions:

- There are four sections and 33 questions in the paper. 1.
- Answers should be written in a given answer booklet. 2.
- There is internal choice in Section-IV only. 3.
- 4. Write all the questions visible & legibly.
- 5. 15 minutes are given for reading the question paper and 2.30 hours given for answering questions.

Marks: 50

SECTION-I

Time 2.45 Hrs.

Note: 1. Answer all Questions. 2. Each Question carries ¹/₂ Mark

 $12 \times \frac{1}{2} = 6$

- 1. Why does ice floats on water.
- 2. The refractive index of glass respect to air is 2. Then the critical angle of glass air interface is
 - a) O° b) 45° c) 30⁰ 4) 60°
- 3. Name the part of human eye that helps in changing the focal length of the eye lens.+
- 4. The lens which can form real and virtual images is
- 5. For an electric iron of 1 KW rating at 220 fuse of how much capacity is to be used.
- 6. What is the unit of magnetic flux density.
- 7. Match the following

SET-A

SET-B

- 1. Plaster of Paris () a) NaHCO₃ 2. Gypsum) b) CaSO₄ $\frac{1}{2}$ H₂O (3. Baking Soda () c) CaSO₄, $2H_2O$.
- 8. Write the formula for no. of electrons in a shell.
- 9. The following is not a Dobereiner Traid c) Ca, Sr, Ba a) Li, Na, K b) Cl, Br, I d) B, Be, C
- 10. Write the shape of BeCl₂ Molecule?
- 11. Write the chemical formula of rust
- 12. Which allotropic Form of Carbon has layered structure

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Note: 1. Answer all the Questions.

- 2. Each question carries 1 Mark 8x1=8
- 13. Can you take a photograph of a mirage
- 14. Define power of accommodation?
- 15. Write the len's maker's formula?
- 16. Name the instrument used to measure both electric current and potential difference
- 17. What are alkalies?
- 18. What is emission spectrum
- 19. State mendeleeff's periodic law.
- 20. Mention two methods which produce very pure metals.

SECTION-III

- **Note:** 1. Answer all the Questions.
 - 2. Each question carries 2 Mark 8x2=16
- 21. Explain why dogs pant during hot summer days using the concept of evaporation.
- 22. Determine the refractive index of benzene if the critical angle of it is 42^0
- 23. Explain overloading of household circuits.
- 24. What are magnetic field lines? List any two characteristics of field lines
- **25.** Plaster of paris should be stored in a moisture proof container. Explain, Why
- 26. Which rule is violated in the electronic configuration 1s⁰2s²2p⁴?
- 27. Why do only valence electrons involve in bond formation? Why not electron of inner shells? Explain.
- 28. Define homologous series of carbon compounds mention any two characteristics of homologous series.

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SECTION-IV

| | | | SECTION-IV |
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| Note: | | : | 1. Answer all the Questions. |
| | | | 2. Each question has internal choice |
| | | | 2. Each question carries 4 Mark5x4=20 |
| 2 | 9. | a) | The rate of rise in temperature depends on the nature of the |
| | | | substance. Prove it with an activity. |
| | | | (or) |
| | | b) | Explain the formation of rainbow |
| 3 | 0. | a) | What is baking powder? How does it make the cake soft and |
| | | | spongy. |
| | | | (or) |
| | | b) | Write the postulates and Limitations of Bohr atomic model. |
| 3 | 1. | a) | Ho do you verify experimentally that $\sin i / \sin r$ is a constant. |
| | | | (or) |
| | | b) | how do you verify experimentally that the current carrying |
| | | | conductor experiences a force when it is kept in magnetic field. |
| 3 | 2. | a) | Given below is the electronic configuration of elements A, B,C,D |
| | | | A) $1s^2 2s^2$ |
| | | | B) $1s^2 2s^2 2p^6 3s^2$ |
| | | | C) $1s^22s^2p^63s^23p^3$ |
| | | | D) $1s^2 2s^2 2p^6$ |
| | | 1. 2. | Which are the elements coming with in the same period. |
| | | 2. 3. | Which are the ones coming with in the same group. Which are the nobal gas elements |
| | | 4. | To which group and period does the elements 'c' belongs (or) |
| | | b) | 1 ml. glacial acetic acid and 1 ml of ethanol are mixed together in a test tube few droops of concentrated sulphuric acid is added in the mixture are warmed in a water bath for 5 min. Answer the following. |
| | | a. b. | Name the resultant compound formed Represent the above change by a chemical equation |
| | | c. | What term is given to such reactions. |
| - | - | d. | What are the special characteristics of the compound formed. |
| 3 | 3. | a. | Draw a neat diagram of Electric motor and label its parts. (or) |
| | | b. | Draw a neat diagram of Blast furnace and label its parts. |
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