Section – IV $(3 \times 8 = 24 \text{ Marks})$



- 1. Write the differences between evaporation and boiling.
- 2. Explain the formation of mirages?
- 3. How do you correct the eye defect Myopia?
- 4. Explain the correction of the eye defect Hypermetropia.
- 5. Explain the formation of rainbow.



- 1. Explain the significance of three Quantum numbers in predicting the positions of an electron in an atom.
- 2. Define the modern periodic Law. Discuss the construction of the long form of the periodic table.
- 3. What is a periodic property? How do the following properties change in a group and period? Explain.
- 4. Explain the formation of BeCl₂ molecule using hybridization.
- 5. Explain the formation of BF, molecule using hybridization.

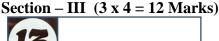


- 1. Suggest an experiment to prove that the presence of air and water is essential for corrosion. Explain the procedure
- 2. Compounds such as alcohols and glucose contain hydrogen but are not categorized as acids. Describe an activity to prove it.
- 3. What is meant by "water of crystallization" of a substance? Describe an activity to show the water of crystallisation.
- 4. Show that acids produce hydrogen gas when react with metals



ction - III

- Acid solution in water conducts electricity
- Ray diagrams of convex lens
- Moeller diagram
- Electric motor
- AC Generator
- Reverberatory furnance
- (s-orbital, p-orbital, soap molecule, Type of lenses, Lewis notation - 1 Mark)





Section

Specific heat

Table

- p^H values Table
- Refractive index Table
- Electronic configuration of an element/ Atomic number based
- Resistivity values Table
- Ores/formula/metal Table

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Specific heat applications

- p^H applications
- Uses of washing soda and baking soda
- Total internal reflection of applications
- Blue colour of the sky
- Appreciation of Ciliary muscles
- Appreciate role of the 'octet rule
- Use fuses in household circuits
- Applications thermite process

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