CLASS-10 GENERAL SCIENCE , Paper – I 2014-15

Public Exam-Guess Paper-2

Section - I 5 x 2 = 10

Group -A

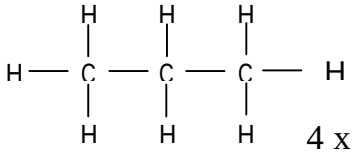
1. Write the differences between real images and virtual images.
2. Write the lens maker's formula and explain the terms in it.
3. Explain Kirchhoff's laws on electric current and Potential difference.
4. Give a few applications of Faraday's law of induction in daily life.

Group -B

5. Give two important uses of washing soda and baking soda.
6. What is nl^x method? How it is useful?
7. Write the differences between the properties of ionic and covalent compounds.
8. Write short notes on froth floatation process?

Section - II 4 x 1 = 4

9. Why do we get dew on the surface of a cold soft drink bottle kept in open air?
10. Write Fermat principle.
11. If we want to take a photograph of an image formed by a convex lens, where can we keep the object ?
12. Why do we keep Plaster of Paris in air tight containers?
13. Write the valence electronic configurations of chromium and copper.
14. Give the IUPAC name of the following structure.



Section - III 4 x 4 = 16

Group -A

15. Suggest an experiment to prove that the rate of evaporation of a liquid depends on its surface area and vapour already present in surrounding area.
16. What is total internal reflection? Explain the formation of mirage.
17. What is Myopia? How can we correct it ? Explain with a neat diagram.
18. Prove that the resultant resistance is equal to the sum of individual resistances, when three resistances are connected in series combination.

Group -B

19. How many types of chemical reactions are there? Name them. Explain each with one example.
20. Explain the significance of Quantum numbers in predicting the positions of an electron in an atom.
21. What is a periodic property? How do the following properties change in a group and period? Explain.
(a) Atomic radius (b) Ionization energy (c) Electron affinity (d) Electro negativity.
22. Distinguish between esterification and saponification reactions in organic compounds.

Section - IV 1 x 5 = 5

23. Draw a neat diagram of an AC generator.
24. Draw the diagrams of five d-orbitals.