

**Sample Paper – 2008**  
**Class – X**  
**Subject – Science**

Time: 2 ½ Hrs

Maximum Marks: 60

**General Instructions:**

- i) The question paper comprises of two sections A and B. You are to attempt both the sections.
- ii) The candidates are advised to attempt all the questions of Section A separately and Section B separately.
- iii) All questions are compulsory.
- iv) There is no overall choice. However, internal choice has been provided in two questions of five marks category in Section A and one question of 2 marks category and one question of 3 marks category in Section B. You are to attempt only one option in such questions.
- v) Marks allocated to each question are indicated against it.
- vi) Questions 1 to 4 in Section A and 17, 18 in Section B are very short answer questions. These are to be answered in one word or one sentence only.
- vii) Questions 5 to 8 in Section A and 19, 20 in Section B are short answer questions. These are to be answered in about 30 - 40 words each.
- viii) Questions 9 to 14 in Section A and 21 to 23 in Section B are also short answer questions. These are to be answered in about 40 - 50 words each.
- ix) Questions 15, 16 in Section A and 24 in Section B are long answer questions. These are to be answered in about 70 words each.

**Section A**

1. When water is added to quick lime, heat is evolved or absorbed?
2. What is the cause of cataract?
3. Name the simplest carboxylic acid?
4. How does the magnetic field due to current carrying wire vary at a point when the point is moved away from the wire?
5. In solar cooker, why is the inner surface blackened?
6. How does the atomic size vary as you go down in a group?
7. Why diamond used as an abrasive?
8. Resistance of a uniform wire of length 30m and radius 0.1mm is measured as  $21\Omega$ . Calculate the resistivity of material of the wire?
9. On what factor does the force experienced by a current conductor placed in a uniform magnetic field depend?
10. Define the term Galvanisation. Why galvanized articles are protected against rusting even if the zinc coating is broken?

11. A white powdered solid when added to water, produced hissing sound. Identify the compound. How does this compound react with moist hydrogen chloride gas? Write the chemical equation. Give some uses of the same compound?
12. Two electric lamps rated 100W, 200V and 25W, 220V are connected in parallel to a 220 V supply. Calculate the total electric current in the circuit?
13. Explain how does a hydro power plant produced electricity. Draw a neat diagram also?
14. Explain how do methanol affect living beings?
15. Explain electrolytic refining of metal with the help of suitable diagram?

Or

Write a short note how carbon compound are named according to IUPAC nomenclature?

16. What is an electric motor? Draw a label diagram of an electric motor and name its important parts briefly explain its working?

Or

What is heating effect of electric current? Find an expression for amount of heat produced. Name some appliances based on heating effect of current?

### **Section B**

17. What is variation
18. What are the two functions of testes?
19. How root and stem respond to gravity?
20. What is meant by systole & diastole?
21. Give reason why.
  - (i) All organism have many common factor.
  - (ii) Fossils furnish the direct and reliable evidence for evolution.
22. Differentiate between
  - (i) External and internal fertilization
  - (ii) Self and cross pollination.

23. Herbivorous eating a grass need a longer small intestine as compared to carnivorous why?
24. Draw a diagram of human alimentary canal and label it?
25. Describe the process of fertilization in flowering plant?
26. In brief describe various type of plant movement?

Or

Describe the male reproductive system with the help of suitable diagram.