

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 6 in Section A and 17 to 19 in Section B are very short answer questions. These are to be answered in one word or one sentence only.
- vii) Questions 7 to 10 in Section A and 20 to 23 in Section B are short answer questions. These are to be answered in about 30 - 40 words each.
- viii) Questions 11 to 14 in Section A and 24 to 25 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 26 in Section B are long answer questions. These are to be answered in about 70 words each.

Section- A

1. Can the Shining Surface of a Spoon be considered a mirror? Of which type.
2. Write the Composition of solder which property of this alloy is being used for welding electricity wire together?
3. For an electric iron of 1 KW rating at 220V, Fuse of how much capacity is to be used?
4. Write an equation to show the reaction between Plaster of Paris and Water?
5. Name any two materials that are used for making Solar cell?
6. Define the term Semi-Metals. Give an example?
7. On what factor does the Force experienced by a current carrying conductor placed in a uniform magnetic field depends?
8. Define the term Sonority. What is the use of this Property?

9. Name any one material having a small value of temperature coefficients of resistance. Write one use of this material?
10. Write at least four important of determination of pH value in daily Life?
11. Draw a neat sketch of Eye and describe its focusing action?
12. Write equation for the reaction of Magnesium, Aluminum, Zinc and Iron with Dilute Hydrochloric acid?
13. A metallic coil connected to a 220 V supply has resistance of 110Ω . How long will take this coil to heat 1 Kg of water from 20°C to 70°C ? Assume that whole heat produced by coil is taken up by water? (Specific heat capacity of water = $4186 \text{ j / Kg- }^{\circ}\text{C}$)
14. Explain addition reaction and substitution reaction with an example?
15. Several steps are involved in the Extraction of Pure metal from ores. Summaries these steps in a tabular form?

OR

Describe long form of modern Periodic table in detail?

16. Describe an experiment in detail to demonstrate the force on a current carrying conductor due to a magnetic field. Also show the effect of change in direction of Current?

OR

Draw a schematic diagram of a fixed Dome type of a bio gas plant and write the process also?

Section – B

17. What is Succus entericus?
18. How brain is protected from injury and shock?
19. Define the term double- fertilization?
20. Write a note on Archaeopteryx?
21. Why testes are located outside the abdominal cavity in sac called scrotum?
22. Name the finger like projection present on the inner lining of intestine and state their functions?
23. What is the composition of nervous System in higher vertebrates?
24. Give the salient feature of Darwin's- theory of natural Selection?
25. With the help of diagram describe the structure of Flower?
26. Draw a labeled diagram of Nephron and explain how Urine is formed?

OR

Describe the process of Fusions, Budding and Spore Formation in living Organism?