

SAMPLE PAPER - 1

Time : 3½ Hrs.

MM : 100

GENERAL INSTRUCTIONS

- I. Question paper comprises of three sections, A, B and C you are to attempt all the three sections.
- II. All questions are compulsory.
- III. All questions of section A, section B and section C are to be attempted separately.
- IV. Question numbers 1 to 3 in section A are one mark each, to be answered in one word or one sentence.
- V. Question numbers 4 to 7 are two marks each, to be answered in about 30 words.
- VI. Question numbers 8 to 19 are three marks each, to be answered in about 50 words.
- VII. Question numbers 20 to 24 are five marks each, to be answered in about 70 words.
- VIII. Question numbers 25 to 42 in section B are MCQs based on practical skills. Each question is a one mark question.
- IX. Question numbers 43 and 44 in section C are OTBA based questions. Each question is of five marks. The open text material for these questions has been provided on pages (A-1-A-8).

SECTION - A

1. What did Rutherford's alpha-particle scattering experiment prove?
2. What do you mean by bilaterally symmetrical body?
3. What do you understand by the term upthrust?
4. What are the roles of algal and fungal partners in lichens?
5. Name any two ways through which infectious diseases spread.
6. What is sound and how is it produced?
7. Certain force acting on a 20 kg mass changes its velocity from 5 ms^{-1} to 2 ms^{-1} . Calculate the work done by the force.
8. (a) An element 'A' has mass number 24 and contain 12 neutrons. What is the valency of 'A'?
- (b) The atomic number of uranium is 92. How many electrons are there in the neutral atom? How many electrons and protons are there in U^{+2} ion?
9. How many grams of potassium will have the same number of atoms as 6 grams of sodium? (Atomic mass of Na = 23; K = 39)
10. (a) The mass of one atom of an element 'A' is $2.65 \times 10^{-23} \text{g}$. Calculate its atomic mass and name the element.
- (b) How many molecules of water of crystallisation are present in 24.95 mg of hydrated copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)?
11. In case of any infection our body temperature rises or we suffer from fever. Why?
12. Why are bryophytes called 'amphibians of the plant world'?
13. A, B and C are living organisms. Identify the group to which they belong to on the basis of the following features :
 - (a) A is unicellular, microscopic, eukaryotic, and shows locomotion with the help of pseudopodia.
 - (b) B is unicellular, microscopic, prokaryotic, and has cell wall.
 - (c) C is multicellular, filamentous, eukaryotic, autotrophic and aquatic.
14. Does sound follow the same laws of reflection as light does? Explain?
15. Why does an object float or sink when placed on the surface of water?

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