## SAMPLE PAPER - 1

Time: 3 1/2 Hrs.

MM: 100

### GENERAL INSTRUCTIONS

- 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

- What did Rutherford's alpha-particle scale ring 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 algor and longer partners in lichens?
- Name any two ways through which infectious diseases spread.
- 6. What is sound and how is it produced?
- Certain force acting on a 20 kg mass changes its velocity from 5 ms<sup>-1</sup> to 2 ms<sup>-1</sup>. 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<sup>+2</sup> ion?
- How many grams of potassium will have the same number of atoms as 6 grams of sodium?
   (Atomic mass of Na = 23; K = 39]

- The mass of one atom of an element 'A' is 2.65 × 10<sup>-23</sup>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 (CuSO<sub>4</sub>.5H<sub>2</sub>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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**Petre Tăutu** 

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