

Exam. Code : 103201

Subject Code : 1282

B.A./B.Sc. 1st Semester

ZOOLOGY

Zoo-IA (Cell Biology)

Time Allowed—3 Hours] [Maximum Marks—35

Note :— Attempt **five** questions, selecting at least **one** question from each Section. The **fifth** question may be attempted from any Section.

SECTION-A

- I. Enumerate various types of microscopes according to the source of light used to illuminate the object. How does light microscope differ from electron microscope ?
7
- II. What is the principle and properties of fixation ? Write down different types of fixatives and give examples of most commonly used fixatives in the laboratory.
7

SECTION-B

- III. Name the various models of plasma membrane. Discuss the most accepted model.
7
- IV. Give an account of structure of mitochondria and its role in respiration.
7

SECTION-C

- V. Discuss the role of ribosomes in cells. Differentiate between Prokaryotic and Eukaryotic ribosomes. 7
- VI. Write a note on polymorphism in lysosomes. 7

SECTION-D

- VII. What do you mean by cell transformation ? Write down the characteristics of cancer cells. 7
- VIII. Explain the structure and functions of nucleolus. 7