

Exam. Code : 103201

Subject Code : 1268

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. Describe the principle of light microscope. How does it differ from phase contrast microscope ? 7
- II. What is the purpose of fixation ? Write commonly used fixative agents and functions of fixation. 7

SECTION-B

- III. Describe the fluid mosaic model of plasma membrane with well labelled diagramme. 7
- IV. Why are mitochondria called the power house of the cell ? Give the role of mitochondria in respiration. 7

SECTION-C

- V. Describe the ultra-structure of ribosome. Differentiate between Prokaryotic and Eukaryotic ribosomes. 7
- VI. Discuss the functions of Golgi apparatus. 7

SECTION-D

- VII. Name the cells of immune system. Differentiate between innate and acquired immunity. 7
- VIII. Explain the structure and functions of chromosomes. 7