

Exam. Code : 103201
Subject Code : 1269

B.A./B.Sc. 1st Semester (Batch 2021-24)

ZOOLOGY

Paper : Zoo-IA (Cell Biology)

Time Allowed—3 Hours] [Maximum Marks—35

Note :—Attempt FIVE questions in all, selecting at least ONE question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION—A

- I. Explain the principle of working of an electron microscope and give a comparative account of light microscopy and electron microscopy. 7
- II. Discuss in detail different types of staining techniques. 7

SECTION—B

- III. Enlist different methods of cellular transportation. Describe endocytosis and its types. 7
- IV. Discuss the structure and functions of mitochondria. 7

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SECTION—C

- V. Why lysosomes are called suicidal bags ? Write functions of lysosomes. 7
- VI. Draw and describe the structure of Golgi complex and write its functions. 7

SECTION—D

- VII. Explain briefly active and passive immunity. 7
- VIII. Discuss in detail the structure of nucleus with the help of well labelled diagram. 7

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