

Exam. Code : 103201

Subject Code : 1283

B.A./B.Sc. Ist 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

1. Explain the principle of working of an electron microscope and give a comparative account of light microscopy and electron microscopy. 7
2. Define Stain. Enlist various staining techniques and explain any one staining technique. 7

SECTION—B

3. Describe the $\text{Na}^+ - \text{K}^+ - \text{ATPase}$ active transport system and distinguish between active and passive transport. 7
4. Give an account of structure and functions of Endoplasmic reticulum. 7

SECTION—C

5. Write a note on centrosome. 7
6. Discuss the functions of Golgi apparatus in the cells. 7

SECTION—D

7. Define immunity. Explain briefly different kinds of immunity. 7
8. Explain the structure of nuclear envelope and its pores. 7