

Exam. Code : 103201

Subject Code : 1311

B.A./B.Sc. Ist Semester

ZOOLOGY ZOO-IA (Cell Biology)

Time Allowed—3 Hours]

[Maximum Marks—35

Note :— Section A is compulsory, each question carries **one** mark. Attempt any **four** questions from Section B, selecting at least **one** from each Unit.

SECTION-A

1. Explain the following terms :

(i) Fixation

(ii) GERL complex

(iii) Exocytosis

(iv) Suicidal bag

(v) Cell transformation

(vi) Nuclear pore complex

(vii) TEM.

1×7=7

SECTION-B

UNIT-I

2. Write a note on the principle and working of a phase contrast microscope. 7
3. Explain the principle and working of SEM. 7

UNIT-II

4. Name various models proposed for plasma membrane. Which structure best explains the characteristics of plasma membrane? 7
5. Write a note on endoplasmic reticulum. 7

UNIT-III

6. Describe the structure and function of golgi complex. 7
7. Explain the structure and function of lysosome. 7

UNIT-IV

8. Write a detailed note on the structure and function of nuclear membrane. 7
9. Write notes on the following :
(i) Cell transformation
(ii) Nucleolus. 3.5×2=7