

(i) Printed Pages : 2

Roll No. ....

(ii) Questions : 9

Sub. Code : 

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Exam. Code : 

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**B.A./B.Sc. (General) 1st Semester  
(1129)**

**ZOOLOGY**

**(Bio Diversity and Cell Biology-I)**

**Paper-I (Zoo-101)**

**Time Allowed : 3 Hours]**

**[Maximum Marks : 36**

**Note :—** Attempt **five** questions in all selecting at least **one** question from each Unit. Question No. 1 is compulsory.

1. Write short answers :

1×8

- (a) Pellicle
- (b) Trichocysts
- (c) Polymorphism
- (d) TEM
- (e) Endocytosis and exocytosis
- (f) Enzymes of ER
- (g) Functions of fixative
- (h) Name classes of Parazoa.

### UNIT-I

2. Explain the mode of feeding in *Paramecium*. 7
3. Classify and write ecological notes and economic importance of *Entamoeba* and *Balantidium*. 7

### UNIT-II

4. (a) Describe the structure and histology of medusa. 4
- (b) Give an account of canal system in sycon. 3
5. Classify and write ecological notes and economic importance of *Spongilla* and *Madrepora*. 7

### UNIT-III

6. Describe in detail various modes of transport across plasma membrane. 7
7. Give principle and applications of scanning electron microscope. 7

### UNIT-IV

8. (a) Describe the structure and functions of endoplasmic reticulum. 5
- (b) Draw a well labeled diagram of mitochondria. 2
9. (a) Give an account of the role of mitochondria in respiration. 5
- (b) Write a note on mitochondrial DNA. 2