

(i) Printed Pages : 3]

Roll No.

(ii) Questions : 9]

Sub. Code :

0	0	5	4
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Exam. Code :

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

1127

ZOOLOGY

(Bio-Diversity and Cell Biology-I)

Paper : I (Zoo-101)

Time : 3 Hours]

[Max. Marks : 36

Note :- Attempt *five* questions in all, including Q. No. 1 which is compulsory and *one* question from each Units I-IV.

1. Explain Briefly :

(i) Lobopodia

(ii) Kappa particles

(iii) Tricho cyst

(iv) Coral reefs

(v) Primary host

NA-25

(1)

Turn Over

- (vi) Exocytosis
- (vii) Compound Microscope
- (viii) Binary fission

8×1=8

Unit-I

2. Write notes on :

- (a) Osmoregulation in *Amoeba*
- (b) Reproduction in *Paramecium*

4+3=7

3. Discuss the life cycle of *Plasmodium Vivax* in man. 7

Unit-II

4. Discuss the canal system in Sycon (Scypha). 7

5. Write notes on :

- (a) Locomotion in *Hydra*
- (b) Medusa in *Obelia*

4+3=7

Unit-III

6. Explain the model which best explains the structure and functions of Plasma Membrane. 7

7. (a) What is the purpose of fixation ? Name some common fixatives.

(b) Give differences between SEM and TEM. 4+3=7

NA-25

(2)

Unit-IV

8. Give the detailed structure of Golgi Complex and discuss the role it plays in the cell. 7
9. (a) What is the role of mitochondria in cell respiration ?
- (b) Differentiate between RER & SER. 4+3=7