

(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

1125

ZOOLOGY

Paper : A : Bio-Diversity and Celi Biology (ZOO-101)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :- Attempt **one** question each from Units I-IV. Questions No. 1 is compulsory.

1. Write short answers :

- Difference between simple and compound microscope
- Primary and secondary hosts of *Plasmodium*
- Type of spicules in *Sycon*
- Types of zooids in *Obelia*
- Differentiate between endocytosis and exocytosis
- Name two common fixatives
- Prosopyle and apopyle
- Differences in inner and outer mitochondrial membrane.

8×1=8

UNIT-I

2. Describe the process of conjugation in *Paramecium*.

7

3. (a) Write an ecological note and economic importance of *Trypanosoma*

3½

(b) Show diagrammatically the life cycle of *Plasmodium*.

3½

UNIT-II

4. Describe the life cycle of *Obelia*. 7
5. (a) Given an ecological account and economic importance of *Tubularia* and *Spongilla*. 3½
- (b) Give an account of structure and functions of various cells found in *Sycon*. 3½

UNIT-III

6. Give principle and applications of SEM and give differences between SEM and TEM. 7
7. Explain the mechanism of active transport across membrane. 7

UNIT-IV

8. Give a detailed account of functions of Golgi complex. 7
9. (a) Explain role of mitochondria in respiration. 3½
- (b) Name enzymes associated with ER. 3½