

(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

1128

ZOOLOGY

Paper-I : Bio Diversity & Cell Biology-I (Zoo-101)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt one question from each of the Units I-IV. Question No. 1 is compulsory.

1. Write short notes :

- (i) Cyclosis
- (ii) Amphimixis
- (iii) Osmoregulation
- (iv) Gonangium
- (v) Enzymes of Golgi
- (vi) Active transport
- (vii) Endocytosis
- (viii) Function of mitochondria.

1×8=8

UNIT—I

- 2. (a) Describe the sexual cycle of *plasmodium*. 5
- (b) Give classification of *Balantidium*. 2
- 3. (a) Describe mechanism of locomotion in *Amoeba*. 5
- (b) Write an ecological note on *Trypanosoma*. 2

UNIT—II

4. (a) Differentiate between polyp and medusa. 3
(b) Write brief ecological notes on *Tubularia* and *Physalia*. 4
5. (a) Give an account of sexual reproduction in *Sycon*. 5
(b) Classify and write ecological note on *Aurelia*. 2

UNIT—III

6. (a) Explain principle and applications of scanning electron microscope. 5
(b) Give characteristics of a good fixative and give two examples. 2
7. Give an account of fluid mosaic model of the plasma membrane. 7

UNIT—IV

8. (a) Describe various enzymes of endoplasmic reticulum. 5
(b) Draw a well labelled diagram of mitochondria. 2
9. (a) Describe structure of mitochondria and give its role in respiration. 5
(b) Describe types of endoplasmic reticulum with their roles. 2