

(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
(2123)

ZOOLOGY

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

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt *five* questions in all, including Question No. 1 which is Compulsory and selecting *one* question from each units I-IV.

1. Explain briefly :

- (a) Conjugation
- (b) Double staining technique
- (c) Active Transport
- (d) Pinocytosis
- (e) Coral reef
- (f) Mitochondrial DNA
- (g) Cnidoblasts
- (h) SEM & TEM.

8×1=8

UNIT—I

2. Describe the Life Cycle of *Plasmodium vivax*. 7
3. Write notes on the ecology & economic importance of :
- (a) *Trypanosoma*
- (b) *Entamoeba*. 3.5+3.5=7

UNIT—II

4. Describe 'Alternation of generations' in *Obelia*. 7
5. (a) What is Syconoid type of canal system ?
- (b) Give the economic importance of any two coelenterates. 3.5+3.5=7

UNIT—III

6. Write notes on :
- (a) Fixation & Fixatives
- (b) Nuclear organization of cell. 3.5+3.5=7
7. Discuss in detail Fluid Mosaic model for Plasma Membrane. 7

UNIT—IV

8. Describe the structure, types and functions of Endoplasmic Reticulum. 7
9. Write notes on :
- (a) Role of mitochondria in cell respiration
- (b) Structure of Golgi Complex. 3.5+3.5=7