

(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

Paper—II

Biodiversity & Cell Biology—II (Zoo-102)

Time Allowed : Three Hours]

[Maximum Marks : 36

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

1. Explain briefly :

- (a) Osmosis
- (b) Dictyosomes
- (c) Plasmotomy
- (d) Automixis
- (e) Nucleoid
- (f) Mitochondrial DNA
- (g) Rhizostoma
- (h) Kala-Azar.

1×8=8

UNIT—I

2. Write notes on :

- (a) Structure of Paramecium
- (b) Osmoregulation in Amoeba.

3.5×2=7

3. (a) Briefly discuss the life cycle of *Plasmodium vivax* in man.

(b) Give the economic importance of *Giardia*. 5+2=7

UNIT—II

4. Give the detailed account of canal system in *sycon* (scypha). 7
5. (a) Discuss the gross structure of *obelia* colony.
(b) What are corals and coral reefs ? 5+2=7

UNIT—III

6. Write notes on :
(a) Fixation and fixatives
(b) Electron microscopes. 3.5×2=7
7. (a) Discuss the fluid mosaic model of plasma membrane.
(b) Differentiate between prokaryotic and eukaryotic cells. 5+2=7

UNIT—IV

8. (a) Discuss the ultrastructure of mitochondria.
(b) Discuss the enzymes associated with mitochondria. 5+2=7
9. (a) Distinguish between SER and RER.
(b) Explain the functions of Golgi apparatus. 3+4=7