

Roll No.

Exam Code : M-21

Subject Code—52491

B. Sc. EXAMINATION

(Reappear Batch 2017)

(First Semester)

ZOOLOGY

Paper-I

Life and Diversity from Protozoa to Porifera
and Cell Biology-I

Time : 3 Hours

Maximum Marks : 40

Note : Question No. 1 is compulsory consisting of ten parts (1 mark each). *Four* more questions are to be attempted, selecting *two* questions from each Section. All questions carry equal marks (7½ each).

1. Define the following terms : 1×10=10

(a) Ookinite

(b) Sporozoite

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P.T.O.

- (c) Primary host
- (d) Apopyle
- (e) Pinacocytes
- (f) Symport
- (g) Osmosis
- (h) Ribophorins
- (i) Oxysomes
- (j) Autophagy.

Section A

2. What is canal system ? Explain it with reference to canal system in Scypha. 7½
3. Write notes on the following :
 - (a) Choanocytes 3½
 - (b) Skeleton system in Scycon. 4
4. Define Schizogony. Explain it with reference to schizogony in life-cycle of *P. vivax*. 7½
5. Write notes on the following :
 - (a) Gamogony 2½

- (b) Class Calcareo 2½
- (c) Sleeping Sickness 2½

Section B

6. Explain the ultrastructure of Mitochondria. Draw diagrams wherever required. 7½
7. Write notes on the following :
 - (a) What is primary active transport ? Explain the phenomenon with an example. 3½
 - (b) Explain the fluid mosaic model of plasma membrane. 4
8. (a) Explain ultrastructure of Cilia. 4
 - (b) Give structure and functions of RER. 3½
9. Write notes on the following :
 - (a) Receptor mediated endocytosis (RME) 2½
 - (b) Polymorphism in lysosomes 2½
 - (c) Biogenesis of Ribosomes. 2½