

Roll No.

Exam Code : M-21

Subject Code—52492

B. Sc. EXAMINATION

(Batch 2017 Re-appear)

(First Semester)

ZOOLOGY

Second Paper

Life and Diversity from Coelenterate to
Helianthus and Cell Biology-II

Time : 3 Hours

Maximum Marks : 40

Note : Attempt *Five* questions in all, selecting *two* questions from each Section. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. Write in brief on the following : **1×10=10**

- (a) Protonephridia
- (b) Statocyst

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- (c) Cross fertilisation
- (d) Planula larva
- (e) Metamorphosis
- (f) Carcinogen
- (g) Antibodies.
- (h) Cell cycle
- (i) Turner's syndrome
- (j) Acquired Immunity.

Seciton I

2. Discuss the general characters and economic importance of Phylum Coelentrata. $3.5+4=7.5$
3. Write notes on the following : $2.5 \times 3 = 7.5$
 - (a) Poly of Obelia
 - (b) Economic importance of Helminthes
 - (c) Coral reef.
4. Discuss the digestive system of liver fluke (*Faciola hepatica*) with suitable labelled diagram. 7.5

5. Discuss the mode of infection and pathogenicity of Ancylostoma. 7.5

Seciton II

6. What is polyploidy ? Discuss the different types of chromosome on the basis of Centromere. $2.5+5=7.5$
7. Write notes on the following : $2.5 \times 3 = 7.5$
 - (a) Nucleosome
 - (b) Mitosis Division
 - (c) Composition of Chromosome.
8. What are He La cells ? Discuss the various causes and prevention of cancer. $2.5+5=7.5$
9. Write notes on the following : $2.5 \times 3 = 7.5$
 - (a) Leukamia
 - (b) B-cell Immunity
 - (c) Polytene chromosome.