

Roll No.

Total Pages : 3

10372/NH

A-5/2110

BIODIVERSITY

Paper-II

Semester-I

Syllabus-(Dec-19)

Time allowed : 3 Hours] [Maximum Marks : 40

Note: The candidates are required to attempt two question each from section A and B Section C will be compulsory.

SECTION-A

1. Classify the following animals upto orders - $3 \times 2 = 6$
 - (a) Entamoeba
 - (b) Euplectella
 - (c) Opalina
2. (i) Draw well labelled diagram of *Amoeba protus*. 3

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(ii) Explain the process of binary fission in Amoeba. 3

3. (i) Explain the process of conjugation in paramecium. 4

(ii) What are the function of cilia in paramecium. 2

4. Write in detail about the canal system in sycon. 6

SECTION-B

5. Classify the following animals upto orders - $3 \times 2 = 6$
 - (i) Hydra
 - (ii) Dugesia
 - (iii) Ascaris
6. Write down the various differences between polyp and medusa of obelia. 6
7. Explain the digestive system of *Fasciola hepatica* with well labelled diagram. 6
8. Enumerate the external characters of Earth worm in details. 6

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SECTION-C

9. Write short notes on the following : $8 \times 2 = 16$

- (i) Osmoregulation
- (ii) Choanocytes
- (iii) Scolex
- (iv) Miracidium larva of liver fluke
- (v) Gemmules
- (vi) Pseudopodia
- (vii) Trichocysts
- (viii) Spicules in Sponges.