

G-1/144/21

Roll No.....

**M.Sc. I Semester Examination, April-2021**

**ZOOLOGY**

**Paper II**

(Structure and Functions of Invertebrates)

Time : 3 Hours ]

[Maximum Marks : 80

**Note :** *All questions are compulsory. Question Paper comprises of 3 sections. **Section A** is objective type/Multiple Choice questions with no internal choice. **Section B** is short answer type with internal choice. **Section C** is long answer type with internal choice.*

**SECTION 'A'**

**(Objective Type Questions)**

Choose the correct answer :

**1 × 8 = 8**

**1.** Gemmule is found in :

- (a) Protozoa                      (b) Porifera
- (c) Coelentrata                  (d) Nematoda

**2.** Nutrition found in protozoa :

- (a) Holozoic                      (b) Holophytic
- (c) Parasitic                      (d) All the three method

**3.** Digestion found in coelentrata is :

- (a) Intracellular                  (b) Extracellular
- (c) Saprozoic                      (d) Both (a) and (b)

**4.** Power of Regeneration is found in :

- (a) Planaria                      (b) Amoeba
- (c) Cat                              (d) Cockroach

P.T.O.

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5. Pseudocoel is found in :

- (a) Protozoa (b) Porifera  
(c) Hydra (d) Ascaris

6. Friends of Farmer is :

- (a) Leech (b) Earthworm  
(c) Cockroach (d) Planaria

7. Autotomy is found in :

- (a) Leech (b) Starfish  
(c) Cockroach (d) Mollusca

8. "Aristotle lantern" is concern with :

- (a) Respiration (b) Chewing  
(c) Reproduction (d) Excretion

### SECTION 'B'

6 × 4 = 24

#### (Short Answer Type Questions)

**Note :** Answer the following questions in 250 words.

1. Explain any two types of Nutrition in Protozoa.

Or

Explain process of fertilization in Porifera.

2. Discuss general characters of Phylum Platyhelminthes.

Or

Explain any two larva of Nematoda (with diagram).

3. Discuss general characters of Annelida.

Or

Explain Protozoaea larva of Crustacea with diagram.

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4. Explain nervous system of pila with the help of diagram.

Or

Draw well labelled diagram of water vascular system of star fish.

### SECTION 'C'

12 × 4 = 48

#### (Long Answer Type Questions)

**Note :** Answer the following questions in 500 words.

1. Explain process of conjugation with the help of diagram.

Or

Write general characteristics of porifera and draw flow diagram for its classification upto order.

2. Explain polymorphism in Coelentrata with the help of diagram.

Or

Life cycle of Plannaria.

3. Explain Respiration in insects.

Or

Disucss Nephridia with diagram.

4. Describe Endoprocta.

Or

Explain Bipinnaria larva and Brachiolaria larva of Echinodermata.

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