

AP-402

5. Describe the male reproductive system of leech.

OR

Describe the digestive system of Cockroach. 12

6. Explain the following :

- (m) General characters of Phylum mollusca
- (n) Radula of Pila
- (o) Tube feet in Asterias

OR

- (p) Madreporite of Asterias
- (q) External features of Asterias
- (r) Male reproductive organs of Pila. 12

7. Explain the following :

- (s) Amphiblastula larva
- (t) Fringing reefs
- (u) Affinities of Balanoglossus with Annelida.

OR

- (v) Trochophore Larva
- (w) Atoll type of coral reef
- (x) Morphological parasitic adaptations in Helminthes

12

**B.Sc. Part-I (Semester-I) Examination**  
**ZOOLOGY**  
**(Life and Diversity of Non-Chordata)**

Time : Three Hours]

[Maximum Marks : 80

**N.B. :—** (1) All questions are compulsory.

(2) Question No. 1 carries 8 marks and the remaining questions carry 12 marks each.

(3) Draw well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

- (i) Common name of Asterias is \_\_\_\_\_.
- (ii) Common name of Balanoglossus is \_\_\_\_\_.
- (iii) Leech belongs to phylum \_\_\_\_\_.
- (iv) Toxin produced by plasmodium in RBC (Blood) of man is \_\_\_\_\_ 2

- (B) Choose the correct alternative from the following :

- (v) Type of canal system of Scypha is \_\_\_\_\_.
- (a) Asconoid type
- (b) Syconoid type
- (c) Leucon type
- (d) Rhagon type

(vi) *Anal cercii* are present in \_\_\_\_\_.

- (a) Cockroach
- (b) Earthworm
- (c) *Ascaris*
- (d) None of these

(vii) Amoebic dysentery is caused by \_\_\_\_\_.

- (a) *Plasmodium vivax*
- (b) *Entamoeba histolytica*
- (c) *Leishmania donovani*
- (d) *Taenia solium*

(viii) Round worm is a common name of \_\_\_\_\_.

- (a) *Taenia solium*
- (b) Leech
- (c) *Ascaris*
- (d) *Pila*

2

(C) Write answer in **one** sentence :

- (ix) Which type of Malaria is caused by *Plasmodium Vivax* ?
- (x) Name any two types of Coral reefs.
- (xi) What is Locomotory Organ in *Pila* ?
- (xii) How many segments are present in posterior sucker of leech ?

4

2. Attempt the following :

- (a) Trypanosomiasis
- (b) Exocytrocytic cycle in malarial parasite
- (c) Gametogony in *Plasmodium*

**OR**

- (d) Sporogony of *Plasmodium*
- (e) Symptoms of Malaria
- (f) Amoebiasis.

12

3. Describe the gastrovascular cavity and mesenteries of *Metridium*.

**OR**

Describe the canal system in *Scypha*.

12

4. Explain the following :

- (g) General characters of Platyhelminthes
- (h) Digestive system of *Fasciola hepatica*
- (i) Excretory system of *Ascaris*.

**OR**

- (j) General characters of Aschelminthes
- (k) Digestive System of *Ascaris*
- (l) Male reproductive system of *Fasciola hepatica*

12