

## B.Sc. (Part-I) Semester-I Examination

## ZOOLOGY

## (Life and Diversity of Non-Chordata)

Time : Three Hours]

[Maximum Marks : 80

**Note :—**(1) All questions are compulsory.

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

(3) Draw well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

(i) Plasmodium belongs to the class \_\_\_\_\_.

(ii) The skeleton structure in scypha is in the form of \_\_\_\_\_.

(iii) The blood sucking habit of Leech is called as \_\_\_\_\_.

(iv) Tongue worm is the name of \_\_\_\_\_.

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(B) Choose the correct alternatives for the following statements :

(v) Free swimming larva of scypha is :

(a) Planula

(b) Amphiblastula

(c) Bipinnaria

(d) Trochophore

(vi) The cause of Liver rot in sheep is :

(a) Dugesia

(b) Fasciola

(c) Taenia

(d) Schistoma

(vii) Mouth parts of cockroach are :

(a) Cutting and chewing

(b) Sucking

(c) Piercing

(d) Biting

(viii) Bipinnaria is the larva of :

(a) Pila

(b) Limulus

(c) Sepia

(d) Star fish

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

(ix) Name the vector for Leishmaniasis.

(x) What is hirudin ?

(xi) What are the functions of water vascular system ?

(xii) What is the common name of Pila ?

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2. Describe the following :

(a) Types of Malaria.

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(b) Amoebiasis.

4

(c) Trapanosomiasis.

4

OR

(d) Control of Malaria.	4
(e) Leishmaniasis.	4
(f) Sporogony in Plasmodium.	4
3. Attempt the following :	
(g) Describe types of cells found in sycon.	4
(h) General characters of phylum Coelentrata.	4
(i) Draw well labelled diagram of L.S. of Metridium.	4
<b>OR</b>	
(j) Spicules in sycon.	4
(k) Canal system in sycon (diagram only).	4
(l) Sexual reproduction in Metridium.	4
4. Describe the following :	
(m) Male reproductive system of Ascaris.	4
(n) Cercaria larva.	4
(o) Life cycle of Ascaris (diagram only).	4
<b>OR</b>	
(p) Female reproductive system of Ascaris.	4
(q) Meracidium larva.	4
(r) Flame cell in Fasciola hepatica.	4
5. Give an account of the digestive system of Leech.	12
<b>OR</b>	
Describe respiratory system of Cockroach.	12
6. Attempt the following :	
(s) Buccal mass of Pila.	4
(t) Ctenidium of Pila.	4
(u) Aboral surface of Star fish.	4
<b>OR</b>	
(v) Madriporite of Star fish.	4
(w) Aerial respiration in Pila.	4
(x) Stone canal of Star fish.	4
7. Describe the structure of Brachiolaria larva and Trochophore larva and its significance.	12
<b>OR</b>	
Describe the affinities of Balanoglossus with Chordata and Non-Chordata.	12