

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 diagram wherever necessary.

1. (A) Fill in the blanks :

(i) Amoebiasis is caused by _____.

(ii) Coelenterata is a group of animals having single central cavity known as _____.

(iii) Periplaneta is commonly known as _____.

(iv) Locomotory organs in Asterias are _____.

2

(B) Choose the correct alternative for the following statement :

(v) Trophozoite of plasmodium lives in _____.

(a) RBC

(b) Lymph

(c) Liver

(d) Blood plasma

(vi) Metridium belongs to class :

(a) Schyphozoa

(b) Anthozoa

(c) Hydrozoa

(d) Sporozoa

(vii) Saliva of leech contains an anticoagulant called _____.

- (a) Hg
- (b) Hirudin
- (c) Histamine
- (d) Heparin

(viii) Balanoglossus belongs to _____.

- (a) Hemichordata
- (b) Cephalochordata
- (c) Urochordata
- (d) Cyclostomata

2

(C) Write answers in one sentence :

- (ix) What is the food of fasciola hepatica ?
- (x) Define incubation period of malarial parasite.
- (xi) How many chambers of crop are present in leech ?
- (xii) What is coral reef ?

4

2. Describe the following :

- (a) Control of malaria
- (b) General characters of phylum protozoa
- (c) Sporozoite of plasmodium

4

4

4

OR

- (d) Pre erythrocytic schizogony
- (e) Trypanosomiasis
- (f) Symptoms of malaria.

4

4

4

3. Describe canal system and its significance in sycon (scypha). 12
- OR**
- Explain habit, habitat and external features of metridium. 12
4. Attempt the following :
- (g) External features of fasciola hepatica. 4
- (h) Digestive system of ascaris. 4
- (i) Flame cell in fasciola hepatica. 4
- OR**
- (j) Excretory system of ascaris. 4
- (k) Male reproductive system of ascaris (diagram only). 4
- (l) Digestive system of fasciola hepatica. 4
5. Describe the digestive system in Leech. 12
- OR**
- Give an account of male reproductive organs of cockroach. 12
6. Attempt the following :
- (m) Female reproductive organs of pila 4
- (n) Radula of pila 4
- (o) Food and feeding in starfish 4
- OR**
- (p) Ctenidium of pila. 4
- (q) Tube feet of starfish 4
- (r) Madreporite in starfish. 4
7. Describe the following :
- (s) Economic importance of coral reef 4
- (t) Body organisation of Balanoglossus 4
- (u) Physiological adaptations in Helminths 4
- OR**
- (v) Bipinnaria larva 4
- (w) Affinities of Balanoglossus with nonchordata 4
- (x) Amphiblastula larva. 4

