

OR

- (p) General characters of Phylum Aschelminthes.
 (q) Male Reproductive system of fasciola
 (Diagram only)
 (r) External features of male and female Ascaris.
 12

5. Explain the following :—

- (s) General characters of phylum Annelida
 (t) Leg of Cockroach.
 (u) Digestive system of Cockroach (Diagram only).

OR

- (v) General characters of phylum Arthropoda.
 (w) Female reproductive system of Leech.
 (x) External features of Leech (diagram only).
 12

6. Describe the respiratory organs of pila globasa.

OR

Describe the water vascular system of Asterias. 12

7. Describe the body organisation of Balanoglossus and its affinities with chordata.

OR

Describe the morphological and physiological parasitic adaptation in Helminthes. 12

AR - 486

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

1S : ZOOLOGY

(Life and Diversity of Non-Chordata)

P. Pages : 4

Time : Three Hours]

[Max. Marks : 80

Note : (1) All questions are compulsory.(2) Question No. **one** carries **eight** marks and remaining questions carry **twelve** marks each.

(3) Draw well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :—

- (i) Radula of pila bears total ——— teeth in each **row**.
 (ii) Body cavity in Ascaries is ——— .
 (iii) The number of nephridia in Hirudinaria are ——— pairs.
 (iv) Common name of fasciola hepatica is ——— . 2

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

- (v) Asterias belongs to phylum,
 (a) Arthropoda
 (b) Mollusca
 (c) Echinodermata
 (d) Annelida.

(vi) The male cockroach can be distinguished from the female in having

- (a) anal cerci
- (b) anal style
- (c) Large antenna
- (d) Large wings.

(vii) Which is the first Larval stage in life cycle of fasciola

- (a) Miracidium
- (b) Sporocyst
- (c) Metacercaria
- (d) Cercaria.

(viii) Tongue worm is the common name of

- (a) Saccoglossus
- (b) Asearis
- (c) Balanoglossus
- (d) Spengelina.

2

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

(ix) What is the common name of Pila globosa ?

(x) What is the common name of Metridium ?

(xi) Which disease is caused by Entamoeba histolytica ?

(xii) Give name of three types of coral reefs ?

4

2. Describe the following :—

- (a) Pre – erythrocytic phase of P. Vivax.
- (b) Erythrocytic Phase in P. Vivax.
- (c) Amoebiasis.

OR

- (d) **Sporogony** (diagram only)
- (e) Control measures of Malaria.
- (f) Leishmaniasis.

12

3. Explain the following :—

- (g) General characteristics of phylum porifera.
- (h) Spicules of seycha.
- (i) External features of metridium.

OR

- (j) Significance of canal system of seycha. (Sycon)
- (k) **Reproduction** in Metridium.
- (l) Mesenteries of Metridium.

12

4. Describe the following :—

- (m) External features of Fasciola hepatica.
- (n) Flame cells of Fasciola hepatica.
- (o) Male reproductive system of Ascaris.