



**JV-003-1015017**

Seat No. \_\_\_\_\_

**Third Year B. Sc. (Sem. V) (CBCS) Examination**

**October - 2019**

**Zoology : Z - 501**

*(Functional Anatomy of Non-Chordates)*

**Faculty Code : 003**

**Subject Code : 1015017**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- Instructions :** (1) Illustrate your answer with neat and labeled diagram.  
(2) Figures to the right side indicate full marks for the question.

- 1 (a) Answer the following questions : 4  
(1) Classify *Pinctada viclgaris* up to the order  
(2) Acron worm is also known as a \_\_\_\_\_.  
(3) Bonelia belong to which phylum ?  
(4) Give any two example of phylum porifera.
- (b) Answer in brief : (any 1 out of 2) 2  
(1) Give classification of Balanus.  
(2) Write general characters of Phylum Arthropoda.
- (c) Answer in detail : (any 1 out of 2) 3  
(1) Classify Liver fluke with characters.  
(2) Give salient characters with example of Phylum coelenterate.
- (d) Write note on : (any 1 out of 2) 5  
(1) Classify phylum Mollusca up to class with examples.  
(2) Give classification of *Tichinella spiralis* and *Ancylostoma*.

- 2** (a) Answer the following questions : **4**
- (1) Give the body division of scorpion.
  - (2) What is function of book lung ?
  - (3) Give the common name of Sepia.
  - (4) The last segment of scorpion bears \_\_\_\_\_.
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Describe Ink gland.
  - (2) Write short note on Pectin.
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Describe external features of Sepia.
  - (2) Describe appendages of Scorpion.
- (d) Write note on : (any 1 out of 2) **5**
- (1) Nervous system of scorpion.
  - (2) Reproductive system of sepia.
- 3** (a) Answer the following questions : **4**
- (1) What is Coprozoic Nutrition ?
  - (2) Give the name of locomotary organelles of protozoa.
  - (3) Define Polymorphism.
  - (4) What is coral reef ?
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) Asexual reproduction in protozoa.
  - (2) Explain Sponge Industry.
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Explain Coral reef. (in brief)
  - (2) Explain Skeleton in Sponge.

- (d) Write note on : (any 1 out of 2) 5
- (1) Diagnostic characters, mode of infection and diseases caused by Leishmania.
  - (2) Describe reproduction in Sponge.
- 4 (a) Answer the following questions : 4
- (1) What is Metamerism ?
  - (2) What is Metamorphosis ?
  - (3) Give Scientific name of Ascaris.
  - (4) Ancylostoma is also known as \_\_\_\_\_.
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Draw and labeled diagram of Megalopa.
  - (2) Write a note on Pathogenic effect of Trichenella spiralis.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Explain Parasitic adaptation with reference to Fasciola.
  - (2) Metamorphosis in Insects.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Give Zoological importance of Peripatus.
  - (2) Describe Nauplius and Zoea larva.
- 5 (a) Answer the following questions : 4
- (1) Give the name of Balanoglossus larva.
  - (2) What is Torsion ?
  - (3) Ophiopluteus larvae belong to phylum.
  - (4) Balanoglossus belongs to class.

- (b) Answer in brief : (any 1 out of 2) 2
- (1) Draw labeled diagram of Ophiopluteus larva.
  - (2) Explain Burrowing Gastropods.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Branchiolaria larva.
  - (2) Water vascular system of Echinodennata.
- (d) Write note on : (any 1 out of 2) 5
- (1) Affinities of Balanoglossus.
  - (2) Explain Foot in Mollusca.
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