



**JV-003-001533**

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

**B. Sc. (Sem. V) Examination**

**October - 2019**

**Zoology : Z-501**

*(Functional Anatomy of Non-Chordates)*

**Faculty Code : 003**

**Subject Code : 001533**

Time : **2:30** Hours]

[Total Marks : **70**

- Instructions :** (1) Illustrate your answer with neat and labelled diagram.  
(2) Figure to the right side indicates full marks of questions.

**1** Give answers of following questions : **20**

- (1) Give only name of coral reefs.
- (2) Which round worms cause elephantiasis and ancylostomiasis.
- (3) Write only name of excretory organs in scorpion.
- (4) Give only name of crustacean larvas.
- (5) Name the pigment cells which are responsible for color change in sepia.
- (6) Sleeping sickness is caused by which protozoan.
- (7) Skeletons of sponge is secreted by which cells?
- (8) Define Parazology.
- (9) Which of the infective stage of primary host of Fasciola.
- (10) Endoparasitis flatworm is also known as \_\_\_\_\_.
- (11) Which type of metamorphosis is seen in Aphid.
- (12) In which phylum coelom and metamerism are the most important characters.

- (13) Tiedemann's bodies are also known as \_\_\_\_\_.
- (14) Auricularia and doliolaria larvae belong to \_\_\_\_\_ class of echinodermata.
- (15) Hemichordates classify into how many classes ?  
Give its name only.
- (16) Define poly morphism.
- (17) Give the name of appendages which are present in Scorpion.
- (18) How many typical molluscan ganglion are present in sepia's brain?
- (19) The contractile vacuoles in protozoa is chiefly concerned with which process ?
- (20) Find out the incorrect pair.
- (1) Arthropoda - Forficula
  - (2) Mollusca - Musca domestica
  - (3) Annelida - Acanthobdella
  - (4) Echinodermata - Anthenaluidia

2 (a) Write any **three** out of six :

**6**

- (1) Book lungs.
- (2) Economic importance of sponge.
- (3) Define: polyp and medusa.
- (4) Saprozoic nutrition in protozoa.
- (5) Ametabolous development in insects.
- (6) Barrier coral reef.

- (b) Write any **three** out of six : **9**
- (1) Types of spicules.
  - (2) Leucon canal system.
  - (3) Types of corals.
  - (4) Ophiopluteus larva.
  - (5) Flagellar movement in protozoa.
  - (6) Patterns of poly morphism.
- (c) Write any **two** out of five : **10**
- (1) Explain nervous system in scorpion.
  - (2) Water vascular system in star fish.
  - (3) Foot in mollusca (any three)
  - (4) Parasitic adaptation in Fasciola.
  - (5) Infection and disease caused by hook worm and trichinella spiralis.
- 3** (a) Write any **three** out of six : **6**
- (1) Incomplete metamorphosis.
  - (2) Holophytic nutrition protozoa.
  - (3) Ink gland.
  - (4) Significance of metamerism.
  - (5) Structure of spicules.
  - (6) Atoll coral reef.
- (b) Write any **three** out of six : **9**
- (1) Locomotion by pseudopodia. (any three type)
  - (2) Conjugation in paramecium.
  - (3) Ascon canal system.
  - (4) Megalopa larva.
  - (5) What is metamerism ?
  - (6) Asexual reproduction in sponge.

(c) Write any **two** out of five :

**10**

- (1) Asexual reproduction in protozoa.
  - (2) Describe digestive system in sepia.
  - (3) Affinities in balanoglossus.
  - (4) Torsion in mollusca.
  - (5) Infection and disease caused by entamoeba and leishmania.
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