



MCP-003-001533

Seat No. _____

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

May / June - 2018

Zoology : Paper - Z-501

(Functional Anatomy of Non chordates) (New Course)

Faculty Code : 003

Subject Code : 001533

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

[Total Marks : 70

- Instructions :**
- (1) Illustrate your answers with neat and labelled diagrams.
 - (2) Figures to the right side indicate full marks of the question.
 - (3) All questions are compulsory.

- 1** Give the answers of following questions : **20**
- (1) Give only name of coral reefs.
 - (2) Which round worms causes 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) Skeleton of sponge is secreted by which cells ?
 - (8) Define Parazoology.
 - (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 larvas belong to _____ class of echinodermata.
- (15) Hemichordates classify into how many classes ? Give its names only.
- (16) Define polymorphism.
- (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 are chiefly concern- with which process ?
- (20) Find out the incorrect pair.
- (1) Monoplacophora - Neopilina
 - (2) Scaphopoda - Chiton
 - (3) Amphinera - Chaetoderma

- 2** (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 types)
 - (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.

- 3 (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 polymorphism.
- (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 spirelis.
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