



H-003-001533

Seat No. _____

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

May / June - 2017

Zoology : 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.

1 Answer the following Questions : 20

- (1) Which type of locomotory organs are found in phylum protozoa ?
- (2) The disease kala Azar is caused by _____
- (3) In skeleton of sponges, Monaxon spicule with a knob at one end is called _____
- (4) In canal system _____ cells maintain a current of water in sponge.
- (5) Which type of skeleton is found in class Demospongia ?
- (6) Gastrozoid, Gonoeoid and dactulozoid are the characteristic of _____ pattern of polymorphism.
- (7) Most notable example of barrier reef is _____
- (8) Fasciola hepatica lives in the _____
- (9) Ancylostoma live in intestine of man and feed upon _____
- (10) Wuchereria bancrofti is transmitted by _____

- (11) _____ is the simplest and commonest type of crustacean larva.
- (12) In brachyuran decapods like crab, Zoea larva metamorphoses in to _____ larva .
- (13) Brain hormone in insect is secreted from _____
- (14) Which phylum shows the characteristics or true metameric segmentation ?
- (15) The protective device of sepia is _____
- (16) Give the body division of scorpion.
- (17) Echinopluteus larva belongs to class _____ of phylum echinodermata.
- (18) Peripatus is connecting link between phylum _____ and _____
- (19) Amoebic dysentery is caused by _____
- (20) Name of larva of Balanoglossus is _____

2 (A) Write any **three** out of six : **6**

- (1) Trypanosoma as a parasitic protozoan.
- (2) Holophytic nutrition in protozoa.
- (3) Classify phylum Annelida up to class with specific character.
- (4) Barrier reef and Atoll.
- (5) Trichinella as a parasitic Nematode.
- (6) Doliolaria larva.

(B) Write any **three** out of six : **9**

- (1) Sexual Reproduction in porifera.
- (2) Mode of infection and disease caused by hookworm.
- (3) Hormonal control of metamorphosis.
- (4) Metamerism in Annelida.
- (5) Affinities and taxonomic position of peripatus.
- (6) Ophiopluteus larva.

(C) Write any **two** out of five : 10

- (1) Reproduction in protozoa.
- (2) Sycon and lucon type canal system in porifera.
- (3) Describe larva of crustacea.
- (4) Digestive system of sepia.
- (5) Asexual reproduction in sponge.

3 (A) Write any **three** out of six : 6

- (1) Parasitic adaptation in Fasciola.
- (2) Mode of infection and disease caused by Entamoeba.
- (3) Ink sac in sepia.
- (4) Book lung in scorpion.
- (5) Ascon type canal system.
- (6) Hexacorallian coral.

(B) Write any **three** out of six : 9

- (1) Locomotion by flagella in protozoa.
- (2) Economic Importance of sponges.
- (3) Affinities of Balanoglossus.
- (4) Mode of infection and disease caused by filarial worm.
- (5) Classify phylum Arthropoda up to class with specific characters.
- (6) Echinopluteus larva.

(C) Write any **two** out of five : 10

- (1) Skeleton in porifera.
- (2) Polymorphism in Coelenterata.
- (3) Nervous system of scorpion.
- (4) Foot in Mollusca.
- (5) Water vascular system in Echinodermata.