



PAP-003-001533

Seat No. _____

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

October / November - 2018

Zoology : Z-501

(Functional Anatomy of Non Chordates)

(Old 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 for the question.

1 Answer the following questions : 20

- (1) Which is the first larval stage in liver fluke ?
- (2) Give any two names of hormones secreted during metamorphosis.
- (3) Write the function of book lung.
- (4) Acron worm is also known as _____
- (5) Doliolaria larva belongs to class _____
- (6) Amoebic dysentery is caused by _____
- (7) What is sclerocytes ?
- (8) Blood pigment in Scorpion is _____
- (9) In which part of human body Trypanosoma gambines live ?
- (10) Which cells are responsible for maintaining water flow in canal system?
- (11) What is polyp ?
- (12) Give the body division of scorpion.
- (13) Holozoic nutrition is also called _____

- (14) Give any two examples of complete metamorphosis.
- (15) The locomotor organs of Echinoderms are called as _____
- (16) Peripatus is connective link between _____ and _____
- (17) Leech belong _____ to the class _____
- (18) Resemose glands is also known as _____ in Starfish.
- (19) Sepia belongs to Phylum _____ and class _____
- (20) _____ larva is a modified form of Zoea larva.

- 2** (a) Write any **three** out of six : **6**
- (1) Classify phylum Coelentrata upto class with specific characters.
 - (2) Flagellary Movement in Protozoa.
 - (3) Holophytic nutrition in protozoa.
 - (4) Importance of canal system.
 - (5) Pectin in Scorpion.
 - (6) Ink gland in Sepia.
- (b) Answer any **three** out of six : **9**
- (1) Sexual reproduction in sponge.
 - (2) Hormonal control of metamorphosis.
 - (3) Sycon type of canal system.
 - (4) Infection and disease caused by Trypanosoma.
 - (5) Metamerism in Annelida.
 - (6) Male reproductive system of Scorpion.
- (c) Answer any **two** out of five. **10**
- (1) Metamorphosis in Insects.
 - (2) Foot in Mollusca.
 - (3) Digestive system of Sepia.
 - (4) Polymorphism in coelenterata.
 - (5) Nervous system of Scorpion.

- 3 (a) Answer any **three** out of six : 6
- (1) Pathogenic effects of *Trichenella spiralis*.
 - (2) Atoll coral reef.
 - (3) Diagnostic characters of Filarial worm.
 - (4) Nauplius larva.
 - (5) Parasitic adaptation of *Fasciola*.
 - (6) *Haxacoralium* coral.
- (b) Answer any **three** out of six : 9
- (1) Affinities of *Balanoglossus*.
 - (2) Zoological importance of *Peripatus*.
 - (3) Mode of infection and disease caused by Hook worm.
 - (4) *Ophioluteus* larva.
 - (5) Fringing and barrier reef.
 - (6) Appendages of Scorpion.
- (c) Answer any **two** out of five : 10
- (1) Water vascular system in Echinodermata.
 - (2) Explain mode of infection and disease caused by *Leishmania*.
 - (3) Nervous system of *Sepia*.
 - (4) Asexual reproduction in Sponges.
 - (5) Classify phylum Mollusca upto order with example.
(any three)
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