



RN-003-001533

Seat No. _____

B. Sc. (Sem. V) Examination

February - 2019

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 answer with neat and labelled diagram.
(2) Figures to the right side indicate full marks of the questions.

1 Answer the following short questions : 20

- (1) Fasciola hepatica is also known as _____.
- (2) Give only name of body division of scorpion.
- (3) Which type of canal system found in leucosolenia ?
- (4) In which class of molluscan foot used as a digging organ ?
- (5) Give the example of Myxotrophic nutrition.
- (6) Pennatula belongs to _____ class.
- (7) Which is the simplest and commonest type of crustacean larva ?
- (8) Define Medusa.
- (9) Ancylostoma is also known as _____.
- (10) What is torsion ?
- (11) Which type of skeleton found in class Demospongia ?
- (12) Define coral.
- (13) In canal system _____ cells maintain a current of water in sponge.

- (14) Which type of locomotory organ are found in protozoa ?
- (15) Wuchereria bancrofti is transmitted by _____.
- (16) Peripatus is connective link between phylums _____ and _____.
- (17) The protective devise of sepia is _____.
- (18) From where brain hormone is secreted in insect ?
- (19) Give name of balanoglossus larva.
- (20) What is polymorphism ?

- 2 (a) Write any **three** out of six : **6**
- (1) Describe Hydrozoan coral.
 - (2) Give a note on pectine in scorpion.
 - (3) Infection and disease caused by trichinella spirills.
 - (4) Gammuls
 - (5) Flagellary movement in protozoa
 - (6) Ink gland in sepia.
- (b) Write any **three** out of six : **9**
- (1) Sexual reproduction in porifera.
 - (2) Mode of infection and disease by hook worm.
 - (3) Binary fission in paramecium.
 - (4) Barrier reef.
 - (5) Metamerism in annilides.
 - (6) Echinopluteus larva.
- (c) Write any two out of five : **10**
- (1) Reproduction in Protozoa.
 - (2) Digestive system of scorpion.
 - (3) Foot in mollusca.
 - (4) Affinities of balanoglossus.
 - (5) Describe zoea and mysis larva.

- 3 (a) Write any **three** out of six : 6
- (1) Trypanosoma as a parasitic protozoan.
 - (2) Economic importance of sponge.
 - (3) Book lung in scorpion.
 - (4) Holophytic nutrition in protozoa.
 - (5) Doliolaria larva.
 - (6) Mode of infection and disease caused by Entamoeba.
- (b) Write any **three** out of six : 9
- (1) Locomotion by flagella in protozoa.
 - (2) Megalopa larva.
 - (3) Ascon type of canal system in sponge.
 - (4) Classify phylum Arthropoda up to class with specific characters.
 - (5) Female reproductive system in scorpion.
 - (6) Parasitic adaptation with reference to fasciola.
- (c) Write any **two** out of five : 10
- (1) A sexual reproduction in sponge.
 - (2) Reproductive system of sepia.
 - (3) Torsion in Mollusca (without diagram)
 - (4) Metamorphosis in insects.
 - (5) Water vascular system in Echinodermata.
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