



PAP-003-1015017 Seat No. _____

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

October / November - 2018

Zoology : Z-501

(Functional Anatomy of Non-chordates)

[New Course]

Faculty Code : 003

Subject Code : 1015017

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

[Total Marks : 70

Instructions : (i) Illustrate your answer with neat and labelled diagram.
(ii) Figures to the right side indicate Full marks of the questions.

- 1 (a) Give the answers of following questions : **4**
(1) Give the example of Annelida phylum.
(2) Eolis belongs to which phylum ?
(3) Pennatula is also known as _____.
(4) Bonelia belongs to which class ?
- (b) Answer any one out of two : **2**
(1) Give classification of liver fluk.
(2) Write a note on general characters of porifera.
- (c) Answer any one out of two : **3**
(1) Give salient characters and example of major animal groups belonging to colentrata.
(2) Classify - Spengila.
- (d) Answer any one out of two : **5**
(1) Classify phylum mollusca up to class with specific charecters.
(2) Give the classification of Euglena and Butterfly.

- 2 (a) Give the answers of following questions : 4
- (1) How many pair of book lung present in scorpion.
 - (2) Due to which metal ion colour of Scorpion blood is blue.
 - (3) Write a function of Ink gland in sepia.
 - (4) Write a name of the body division of Scorpion.
- (b) Answer any one out of two : 2
- (1) Write the external charocters of Scorpion.
 - (2) Draw only labelled diagram of Ink gland in sepia.
- (c) Answer any one out of two : 3
- (1) Describe book lung in Scorpion.
 - (2) Describe allimentary canal of sepia.
- (d) Answer any one out of two : 5
- (1) Give a description of tube feet in starfish and Ink gland in sepia.
 - (2) Give a detail on reproductive system of Scorpion.
- 3 (a) Give the answers of following questions : 4
- (1) Define polymorphism.
 - (2) Give the name only of locomotary organelles of protozoans.
 - (3) What is Holozoic nutrition ?
 - (4) Spicules have a core of organic material around which is deposited either _____ or _____.
- (b) Answer any one out of two : 2
- (1) Explain Atoll of Barrrier reef.
 - (2) Give brief note on sponge industry.
- (c) Answer any one out of two : 3
- (1) Describe Leishmania as a parasitic protozoa.
 - (2) Explain skeleton in sponge.
- (d) Answer any one out of two : 5
- (1) Give a detail on polymorphisum in Coelenterata.
 - (2) Describe reproduction in sponge.

- 4 (a) Give answers of following questions : 4
- (1) Give the name of Apus larva.
 - (2) Ancylostomiasis is caused by _____.
 - (3) Define - Metamorphosis.
 - (4) _____ is the simplest and commonest type of crustacean larva.
- (b) Answer any one out of two : 2
- (1) Draw only labelled diagram of zoea larva.
 - (2) Write a note on pathogenic effect of trichenella Spiralis.
- (c) Answer any one out of two : 3
- (1) Give an explanation on Metamorphosis in insects.
 - (2) Write a note on Nauplius larva.
- (d) Answer any one out of two : 5
- (1) Give zoological importance of peripatus.
 - (2) Describe mysis and megalopa larva.
- 5 (a) Give answers of following questions : 4
- (1) What is Detorsion ?
 - (2) Give the name of balanoglossus larvae.
 - (3) How many tiedmann's bodies are present in water vascular system of Echinodermata ?
 - (4) In which class of mollusca tongue - shaped or cylindrical foot is present ?
- (b) Answer any one out of two : 2
- (1) Write brief note on branchiolaria larva (without diagram)
 - (2) Draw a labelled diagram of opiopluteus larva.
- (c) Answer any one out of two : 3
- (1) Explain - burrowing and leaping gastropods.
 - (2) Give a detail an water vascular system of Echinodermatas.
- (d) Answer any one out of two : 5
- (1) Describe torsion in mollusca.
 - (2) Describe Affinites of balanoglossus with Echinodermata. _____