



RN-003-1015017

Seat No. _____

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

February - 2019

Zoology : Paper - 501

(Functional Anatomy of Non-Chordates)

(New Course)

Faculty Code : 003

Subject Code : 1015017

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

[Total Marks : 70

- Instructions :** (1) Illustrate your answers with neat and labeled diagrams.
(2) Figures to the right side indicate full marks of questions.

- 1 (A) Give answer of following questions : 4
(1) Give the example of Annelida phylum
(2) Classify star fish up to the order
(3) Bonelia belongs to which phylum?
(4) Entamoeba histolytica is found in _____
- (B) Write any **one** out of two : 2
(1) Write a note on general character of porifera.
(2) Classify pinctada vulgaris
- (C) Write any **one** out of two : 3
(1) Give salient character and examples of major animal groups of colentrata.
(2) Classify spongilla
- (D) Write any **one** out of two : 5
(1) Classify mollusca up to class with specific character
(2) Give classification of euglena and red coral

- 2 (A) Give answer of following question : 4
- (1) How many pair of book lung present in scorpion?
 - (2) What is colour of ink discharge by sepia?
 - (3) Give scientific name of sepia
 - (4) _____ blood pigment is present in scorpion.
- (B) Write any **one** out of two : 2
- (1) Write external character of scorpion
 - (2) Describe appendage of scorpion
- (C) Write any **one** out of two : 3
- (1) Describe alimentary canal of sepia
 - (2) Book lung of scorpion
- (D) Write any **one** out of two : 5
- (1) Explain reproductive system of scorpion
 - (2) Explain nervous system of sepia
- 3 (A) Give answer of following question : 4
- (1) Give the name only of locomotary organelles of protozoa
 - (2) Define polyp
 - (3) What is holozoic nutrition?
 - (4) Spicules have a core of organic material around which is deposited either _____ or _____
- (B) Write any **one** out of two : 2
- (1) Give brief note on sponge industry
 - (2) Asexual reproduction in protozoa
- (C) Write any **one** out of two : 3
- (1) Explain skeleton in sponge
 - (2) Nutrition in protozoa

- (D) Write any **one** out of two : 5
- (1) Give details of polymorphism in colentrata
 - (2) What are coral reefs ? Give an account of the various types of coral reefs met with all over the world.
- 4 (A) Give answer of following question : 4
- (1) Give the name of apus larva.
 - (2) Which disease is caused by trichinella spirilis?
 - (3) _____ is the simplest and commonest type of crustacen larva
 - (4) Define metamorphosis
- (B) Write any **one** out of two : 2
- (1) Draw a labelled diagram of zoea larva
 - (2) Give the significance of metamorphosis in annelida
- (C) Write any **one** out of two : 3
- (1) Write a note on nauplis larva
 - (2) Characters and mode of infection caused by ancylostometa
- (D) Write any **one** out of two : 5
- (1) Give zoological importance of peripatus
 - (2) Meta nauplius and megalopa
- 5 (A) Give answer of following question : 4
- (1) Define torsion
 - (2) Echinoplutus larva belongs to _____ class
 - (3) How many tideman's bodies are present in water vascular system of echinodrameta
 - (4) Give name of balanoglosscus larva

- (B) Write any **one** out of two : **2**
- (1) Brief note on bipinaria larva
 - (2) Brief note on cephalopoda
- (C) Write any **one** out of two : **3**
- (1) Explain burrowing and leaping gastropods
 - (2) Detrosin in mollusca
- (D) Write any **one** out of two : **5**
- (1) Describe affinity of balanoglossus with echinodrameta
 - (2) Tortion in mollusca
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