

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov. – 2019****FUNCTIONAL ANATOMY OF NON-CHORDATES (CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Q. 1 (A) Answer the following questions. (Any one out of two) 07

1. Give the classification of phylum Arthropoda upto class with reasons and suitable examples.
2. Give the classification of phylum Mollusca upto class with reasons and suitable examples.

Q. 1 (B) Answer the following questions. (Any one out of two) 04

1. Classify phylum Coelelenterata upto class with reason.
2. Classify phylum Platyhelminthes upto class with reason.

Q. 1 (C) Answer the following questions. (Any three out of five) 03

1. Murex belongs to class.
2. Anthena belongs to phylum.....class.....
3. Polymorphism is seen in.....phylum.
4. Which class of porifera bears spicules made of Silica?
5. Close type of circulation is first observed in.....phylum.

Q. 2 (A) Answer the following questions. (Any one out of two) 07

1. Describe: Digestive system of scorpion.
2. Describe: Nervous system of Sepia.

Q. 2 (B) Answer the following questions. (Any one out of two) 04

1. Write a short note on: Appendages of scorpion.
2. Write in brief: Reproductive system of Sepia.

Q. 2 (C) Answer the following questions. (Any three out of five) 03

1. List out the excretory organs of Scorpion.
2. Gastric ganglion gives nerve supply to which organs in Sepia?
3. Which type of respiratory organs are found in Sepia?
4. List out the food of Scorpion.
5. Write the function of Olfactory pit in Sepia.

Q. 3 (A) Answer the following questions. (Any one out of two) 07

1. Give an account on nutrition in protozoa.
2. Describe: Skeleton in sponges.

- Q. 3 (B) Answer the following questions. (Any one out of two)** **04**
1. Write short note on: Types of coral reefs.
 2. Write in brief: disease caused by Leishmania in man.
- Q. 3 (C) Answer the following questions. (Any three out of five)** **03**
1. Give any two symptoms of disease caused by Plasmodium.
 2. List out the reproduction methods of Sponges.
 3. Give the types of zooids seen in Coelenterates.
 4. List out the Locomotion types of protozoa.
 5. Which type of Nutrition is found in Phytomastigophorea?
- Q. 4 (A) Answer the following questions. (Any one out of two)** **07**
1. Describe: Metamerism in Annelids and its significance.
 2. Give an account on larval forms of crustacea.
- Q. 4 (B) Answer the following questions. (Any one out of two)** **04**
1. Describe: Disease caused by Trichinella.
 2. Describe: Hormonal control of metamorphosis in insects.
- Q. 4 (C) Answer the following questions. (Any three out of five)** **03**
1. Give any two parasitic adaptation of Fasciola.
 2. Which disease is caused by Ascaris?
 3. Give any two symptoms of disease caused by Ancylostoma.
 4. Zoa is the larva of.....animal.
 5. Which hormone causes development of adult from larva during metamorphosis in insects?
- Q. 5 (A) Answer the following questions. (Any one out of two)** **07**
1. Describe: Foot in mollusca.
 2. Give an account on Torsion in Gastropods.
- Q. 5 (B) Answer the following questions. (Any one out of two)** **04**
1. Explain structure and metamorphosis of Tornaria larva.
 2. Explain: Affinities of Balanoglossus with Annelida and Echinodermata.
- Q. 5 (C) Answer the following questions. (Any three out of five)** **03**
1. Write the function of Pollian vesicles.
 2. Give the name of the larva of class Crinoidea.
 3. In which animal, Swimming foot is found?
 4. Pleuro visceral nerves converted in to..... shape due to Torsion. What is madreporite?
