

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov. - 2022(Old Course)****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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- Que. 1 A) Answer the following question (any one out of two). (07)
1. Write a note on the classification scheme of phylum Mollusca with suitable examples for each class.
 2. Write a note on classification scheme of phylum Echinodermata with suitable examples for each class.
- Que. 1 B) Answer the following question (any one out of two). (04)
1. Classify Platyhelminthes up to class with examples.
 2. Classify phylum Porifera up to class with examples.
- Que. 1 C) Answer the following question (any three out of five). (03)
1. In which class adult life is lead by medusoid form?
 2. Which class of phylum Protozoa have pseudopodia for locomotion?
 3. What is protostomia?
 4. Dentalium belong to which class?
 5. Which class of phylum Echinodermata has sessile life forms?
- Que. 2 A) Answer the following question (any one out of two). (07)
1. Describe in detail – Digestive system in Scorpion.
 2. Describe in detail – Nervous system in Sepia.
- Que. 2 B) Answer the following question (any one out of two). (04)
1. Write a note on appendages in Scorpion
 2. Write a note on sense organs in Sepia.
- Que. 2 C) Answer the following question (any three out of five). (03)
1. How many walking pairs does a scorpion have?
 2. What is function of Pecten?
 3. What is function of Gustatory organ in Sepia?
 4. What is function of statocysts?
 5. How many book lungs are found in Scorpion?
- Que. 3 A) Answer the following question (any one out of two). (07)
1. Write a note on nutrition in protozoans.
 2. Write a note on reproduction in sponges.
- Que. 3 B) Answer the following question (any one out of two). (04)
1. Discuss in brief: Pathogenicity of *Plasmodium vivex*.
 2. Write a note on polymorphism.
- Que. 3 C) Answer the following question (any three out of five). (03)
1. Which disease is caused by *Plasmodium*?
 2. Amoeba shows parasitic nutrition. True or False?
 3. Which type of coral reefs are found in Lakshadweep Islands?
 4. What is the role of gastrozoid?
 5. Commonly known as Bathing Sponge belong to which class?

- Que. 4 A) Answer the following question (any one out of two). (07)
1. Describe metamerism in annelida.
 2. Write a note on important crustacean larval forms.
- Que. 4 B) Answer the following question (any one out of two). (04)
1. Discuss Peripatus as connecting link.
 2. Describe pathogenicity of *Ascaris*.
- Que. 4 C) Answer the following question (any three out of five). (03)
1. Who does serve as primary host to *Fasciola*.
 2. In which crustacean Mysis larva is seen?
 3. Which disease is caused by *Trichinella*?
 4. What is Holometabola in metamorphosis.
 5. In which class Peripatus is classified?
- Que. 5 A) Answer the following question (any one out of two). (07)
1. Write a note on torsion in mollusca.
 2. Write a note on various larval forms of Echinoderms.
- Que. 5 B) Answer the following question (any one out of two). (04)
1. Describe water vascular system in echinodermata.
 2. Discuss affinities of balanoglossus with Annelida.
- Que. 5 C) Answer the following question (any three out of five). (03)
1. Name the divisions of molluscan foot.
 2. What is detorsion?
 3. Which are the larval forms are found is class Asteroidea?
 4. What is role of Poilan vesicles?
 5. Which larval form is found in phylum Hemichordata?
