

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2023 (NEW COURSE)****Functional Anatomy of Non chordates and Systematic(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 Arthropoda with suitable examples for each class.
 2. Write a note on classification scheme of phylum Protozoa with suitable examples for each class.
- Que. 1 B) Answer the following question (any one out of two). (04)
1. Classify Diploblastic animals up to class with examples.
 2. Classify phylum Hemichordata up to class with examples.
- Que. 1 C) Answer the following question (any three out of five). (03)
1. Which class of phylum Coelenterata has only polyp forms?
 2. Animals commonly known as Glass Sponges belong to _____ class of phylum Porifera.
 3. Which phylum had developed true coelom for the first time.
 4. Tubefeet are characteristics of _____ phylum.
 5. Which phylum is represented by diploblastic animals?
- Que. 2 A) Answer the following question (any one out of two). (07)
1. Describe in detail – Reproductive system in Scorpion.
 2. Describe in detail – Nervous system in Pila.
- Que. 2 B) Answer the following question (any one out of two). (04)
1. Write a note on sensory organs in Scorpion
 2. Classify Pila and write a note on its external characters.
- Que. 2 C) Answer the following question (any three out of five). (03)
1. Scorpion is classified under _____ class.
 2. Give only names of appendages found in Scorpion.
 3. Give only names of sensory organs found in Pila?
 4. Which two ganglia form Pleura-pedal ganglionic mass?
 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 asexual reproduction in protozoans.
 2. Write a note on skeleton 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 ecological significance of coral reefs.
- Que. 3 C) Answer the following question (any three out of five). (03)
1. Sleeping sickness disease is caused by _____ protozoan.
 2. Amoeba shows parasitic nutrition. True or False?
 3. Which type of coral reefs are found in Gulf of Kachchh?
 4. What is the role of dactylozooids?
 5. Which class of phylum Porifera has spicules made of silica?

- Que. 4 A) Answer the following question (any one out of two). (07)
1. Describe nephridia as segmental organ in annelida.
 2. Write a note on metamorphosis in insects.
- Que. 4 B) Answer the following question (any one out of two). (04)
1. Write a note on: (a) Nauplius larva and (b) Zoea larva.
 2. Describe pathogenicity of *Trichinella*.
- Que. 4 C) Answer the following question (any three out of five). (03)
1. Who does serve as intermediate host to *Fasciola*.
 2. In which crustacean Megalopa larva is seen?
 3. Which disease is caused by *Ascaris*?
 4. Give full form of PGH.
 5. What is regeneration?
- Que. 5 A) Answer the following question (any one out of two). (07)
1. Write a note on various kind of foot found 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 process of pearl formation
 2. Describe Torsion.
- Que. 5 C) Answer the following question (any three out of five). (03)
1. Name the divisions of molluscan foot.
 2. Where does the torsion initiate?
 3. Which are the larval forms are found in class Holothuroidea?
 4. How many Tidemann's bodies are found in Starfishes?
 5. Which larval form is found in phylum Hemichordata?
