

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2024 (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. (Any one out of two) (07)
1. Discuss general characters of largest phylum of animal kingdom and classify it up to class with characters and examples.
 2. Discuss general characters of phylum Porifera and give an outline of classes with its characters and examples.
- Que.1(B) Attempt any one. (Out of two) (04)
1. Write down the characters of phylum Coelenterata with classification up to class.
 2. Describe characters of phylum Annelida up to class with examples.
- Que.1(C) Attempt any three. (Out of five) (03)
1. Distinguish between non-chordata and chordata.
 2. Animals of which phylum have flame cells?
 3. Write down only Classification: Mollusca.
 4. Give the names of class of phylum Nematoda.
 5. Animals of which phylum shows pentamerous radial symmetry?
- Que.2(A) Answer the following. (Any one out of two) (07)
1. Describe Digestive System of Scorpion with labelled diagram.
 2. Give an account of Nervous System of Pila with neat and labelled diagram.
- Que.2(B) Attempt any one. (Out of two) (04)
1. Write a note on hepatopancreas found in scorpion.
 2. Osphradium.
- Que.2(C) Attempt any three. (Out of five) (03)
1. What is the function of statocyst?
 2. Give the position and function of pectine found in Scorpion?
 3. Give the name of respiratory organ found in Scorpion.
 4. What is common english name of Pila?
 5. How many teeth are found in a row of radula?
- Que.3(A) Answer the following. (Any one out of two) (07)
1. Give a detail account of Nutrition in Protozoa.
 2. Write an essay on Polymorphism in Coelenterata.
- Que.3(B) Attempt any one. (Out of two) (04)
1. Write a short note on skeleton of phylum Porifera.
 2. Write short note on types of corals.
- Que.3(C) Attempt any three. (Out of five) (03)
1. Give the names of larval forms found in Porifera.
 2. Which disease is caused by *Trypanosoma gambiense*?
 3. Define hyperparasitism.
 4. Which zooid in coelenterate is without mouth and serve as protective polyp?
 5. Which is the host for *Monocystis*?

- Que.4(A) Answer the following. (Any one out of two) (07)
1. Explain diagnostic characters, mode of infection and disease caused by *Ancylostoma duodenale*.
 2. What are segmental organs? Give their account in Annelida.
- Que.4(B) Attempt any one. (Out of two) (04)
1. Write a short note on parasitic adaptations of Liver fluke.
 2. Write a short note on larval forms of Arthropoda.
- Que.4(C) Attempt any three. (Out of five) (03)
1. What are the symptoms of disease trichinosis?
 2. List out the larva of *Fasciola hepatica*.
 3. Which class of phylum Annelida does not show regeneration?
 4. Who are the hosts of Liverfluke?
 5. Give names of few economic important arthropods.
- Que.5(A) Answer the following. (Any one out of two) (07)
1. Describe Water vascular system of Starfish with labelled diagram.
 2. Write a detail account of process of pearl formation.
- Que.5(B) Attempt any one. (Out of two) (04)
1. Write a short note on Torsion.
 2. Describe Tornaria larva with labelled diagram.
- Que.5(C) Attempt any three. (Out of five) (03)
1. Give names of larval forms found in holothuroidea class.
 2. What is the function of tiedemann's bodies?
 3. Animals of which class are having hatchet-shaped foot?
 4. Give names of phylums show affinities with Balanoglossus.
 5. Veliger larva belongs to which phylum?
