

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2022 (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. Discuss general characters of phylum Arthropoda and classify up to class with examples.
 2. Discuss general characters of animals having of phylum Platyhelminthes and give an outline of classes with suitable examples.
- Que-1 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Write down the characters of phylum Porifera with classification up to class.
 2. Describe characters of phylum Aschelminthes up to class with examples.
- Que-1 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. Animals of which phylum have pores?
 2. Write down only Classification: Butterfly.
 3. Give the name of class of phylum Nematoda.
 4. Write down the difference between non-chordata and chordata.
 5. Write down the characters of class Insecta.
- Que-2 (A) **Answer the following question. (Any One Out of Two)** (07)
1. Describe Nervous System of Scorpion with labelled diagram.
 2. Give an account of Digestive System of Pila with neat and labelled diagram.
- Que-2 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Describe the structure and function of Pecten in Scorpion.
 2. Write a note on Ink gland.
- Que-2 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. Name the excretory organ found in Scorpion.
 2. What is the function of book lung found in Scorpion?
 3. Give the names of appendages of Scorpion.
 4. Give the scientific name of Pila.
 5. What are commissures and connectives?
- Que-3 (A) **Answer the following question. (Any One Out of Two)** (07)
1. Give a detail account of Reproduction in Protozoa.
 2. Describe the skeleton of phylum Porifera.
- Que-3 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Write a short note on Polymorphism in Coelenterata.
 2. Explain Gemmules.
- Que-3 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. What is parasitism?
 2. Animals of which phylum shows reproduction by conjugation?
 3. Explain functions of tentacles in phylum Coelenterata.
 4. Name the types of coral reefs?
 5. Give the names of larval stages of phylum porifera.

- Que-4 (A) **Answer the following question. (Any One Out of Two)** (07)
1. Explain diagnostic characters, mode of infection and disease caused by *Trichuris trichiura*.
 2. Give a detail account of Asexual reproduction in Polychaetes.
- Que-4 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Write a short note on parasitic adaptations of Liver fluke.
 2. Describe metamorphosis in insects.
- Que-4 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. Give the name of disease caused by *Loa loa*.
 2. Write the types of fragmentation.
 3. Who are the host of Hook worms?
 4. Give an example of ametabolous metamorphosis.
 5. Give name of an economic important arthropod animal.
- Que-5 (A) **Answer the following question. (Any One Out of Two)** (07)
1. Describe Water vascular system of Starfish with labelled diagram.
 2. Describe the process of pearl formation.
- Que-5 (B) **Answer the following question. (Any One Out of Two)** (04)
1. Describe Torsion.
 2. Describe Tornaria larva with labelled diagram.
- Que-5 (C) **Answer the following question. (Any Three Out of Five)** (03)
1. Echinopluteus larva is found in which phylum?
 2. Which class has no medreporite?
 3. Animals of which phylum have muscular foot?
 4. Give name of phylums show affinities with Balanoglossus.
 5. Tornaria larva belongs to which phylum?
