

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
Feb/Mar. -2021 (OLD COURSE)
FUNCTIONAL ANATOMY OF NON-CHORDATES(CORE)

Time: 1:30 Hours

Marks: 42

Instructions:

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

- Q. 1 (A) Answer the following questions. (Any one out of two) 07
1. Give the classification of phylum Mollusca upto class with reasons and suitable examples.
 2. Give the classification of phylum Arthropoda 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. Aplysia belongs to class.....
 2. Echinocardium belongs to phylum.....
 3. Coelomate animals are found first in phylum.....
 4. Canal system is a characteristics of phylum.....
 5. Setae is a locomotory organ of.....
- 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. Draw a labelled diagram of Digestive system of Sepia.
- Q. 2 (C) Answer the following questions. (Any three out of five) 03
1. Respiratory organ in Scorpion is.....
 2. Give scientific name of Scorpion.
 3. Pecten is found in..... animal.
 4. Give the function of Ink-gland.
 5. Respiratory pigment of Sepia is.....
- Q. 3 (A) Answer the following questions. (Any one out of two) 07
1. Give an account on sponge spicule.
 2. Give an account on coral reefs.
- Q. 3 (B) Answer the following questions. (Any one out of two) 04
1. Write short note on: mode of infection of Plasmodium.
 2. Write short note on sponge industry.
- Q. 3 (C) Answer the following questions. (Any three out of five) 03
1. Disease caused by Leishmania is.....
 2. What is binary fission?
 3. Which are the locomotory organ found in phylum protozoa?
 4. Give the names of larval forms of sponges.
 5. Write an example of any one polymorphic colony in coelelenterates.
- Q. 4 (A) Answer the following questions. (Any one out of two) 07
1. Describe parasitic adaptations with reference to Fasciola.
 2. Describe: Trichinella as a parasitic nematode of man.
- Q. 4 (B) Answer the following questions. (Any one out of two) 04
1. Write a short note on metamorphosis in insects.
 2. Write a short note on Nauplius and Megalopa larva.

- Q. 4 (C) Answer the following questions. (Any three out of five) 03
1. Give scientific name of Hook worm.
 2. Write two symptoms of disease caused by Ascaris.
 3. Give the types of metamerism with examples.
 4. Mysis is a larva of..... animal.
 5. Peripatus is a connecting link between..... and.....phylum.
- Q. 5 (A) Answer the following questions. (Any one out of two) 07
1. Describe: Water vascular system of Starfish.
 2. Describe the process of Torsion.
- Q. 5 (B) Answer the following questions. (Any one out of two) 04
1. Write a short note on Bracheolaria and Doliolaria larva.
 2. Write a short note on Detorsion.
 1. Give the name of larval forms of class Asteroidea.
 2. Tornaria larva is the larva of.....animal.
 3. Write the function of tube feet.
 4. Hatchet shaped foot is found in.....class.
 5. Echinopluteus is the larva of class.....
