

B.Sc. Semester - 5 (CBCS) Examination**July-2025 (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 questions. (Any one out of two) (07)

- 1) Give the classification of phylum Protozoa up to class.
- 2) Give the classification of phylum Arthropoda up to class.

Que.1(B) Answer the following questions. (Any one out of two) (04)

- 1) Give the classification of phylum Porifera up to class.
- 2) Give the classification of phylum Annelida up to class.

Que.1(C) Answer the following questions. (Any three out of five) (03)

- 1) Give any two examples of Protozoa.
- 2) The phenomenon of polymorphism is the characteristic of phylum.....
- 3) All coelomatic animals belongs to phylum.....
- 4) Jointed appendages are the characteristic of phylum.....
- 5)is locomotory organ in phylum Echinodermata.

Que.2(A) Answer the following questions. (Any one out of two) (07)

- 1) Describe male reproductive system of Scorpion.
- 2) Describe digestive system of Sepia.

Que.2(B) Answer the following questions. (Any one out of two) (04)

- 1) Write a note on pecten of Scorpion.
- 2) Write a note on ink gland in Sepia.

Que.2(C) Answer the following questions. (Any three out of five) (03)

- 1) Respiratory organ of scorpion is.....
- 2) Body divisions of Scorpion are
- 3) Scorpion belongs to phylum.....
- 4) Sepia belongs to class.....
- 5) Sepia generally known as.....

Que.3(A) Answer the following questions. (Any one out of two) (07)

- 1) Describe mode of infection and disease caused by Plasmodium.
- 2) Describe Reproduction in Porifera.

Que.3(B) Answer the following questions. (Any one out of two) (04)

- 1) Write a note on holophytic and holozoic nutrition in protozoa.
- 2) Write a note on polymorphism in coelenterata.

Que.3(C) Answer the following questions. (Any three out of five) (03)

- 1) List out locomotory organs of phylum Protozoa.
- 2) Leishmania causes the disease
- 3) Give the names of larval forms found in phylum in Porifera.
- 4) Reef building coral require water warm above.....
- 5) Most notable example of barrier reef is.....

- Que.4(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe Ascaris as parasitic nematode.
 - 2) Describe metamorphosis in insects.
- Que.4(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a note on parasitic adaptations of Fasciola hepatica.
 - 2) Write a note on metamerism in Annelida.
- Que.4(C) Answer the following questions. (Any three out of five) (03)**
- 1) Disease caused by Trichinella spiralis is known as.....
 - 2) The scientific name of hook worm is.....
 - 3) The phenomenon of metamerism is found in phylum.....
 - 4) Give any three examples of crustacean larva.
 - 5) Peripatus is connecting link between phylumand.....
- Que.5(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe different types of foot in Mollusca.
 - 2) Write a note on water vascular system in class Asteroidea.
- Que.5(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a note on Echinopluteus larva.
 - 2) Write a note on Tornaria Larva.
- Que.5(C) Answer the following questions. (Any three out of five) (03)**
- 1) Phenomenon of Torsion and Detorsion is found in phylum
 - 2) List out the name of larval forms present in Asteroidea.
 - 3) Doliolaria larva belongs to the class.....
 - 4) In water vascular system of Echinodermata stone canal opens into
 - 5)is the larva of Balanoglossus.
