

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 2025 (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) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Give the classification of phylum Porifera up to class.
 - (2) Give the classification of phylum Arthropoda up to class.
- Que.1(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Give the classification of phylum Coelenterata up to class.
 - (2) Give the classification of phylum Annelida up to class.
- Que.1(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) Give any two examples of phylum protozoa.
 - (2) Presence of Canal system is the peculiar character of phylum
 - (3) Flame cells are as excretory organ in phylum
 - (4) Jointed appendages are the characteristic of phylum
 - (5) All exclusively marine animals belongs to phylum
- Que.2(A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Describe digestive system of Scorpion.
 - (2) Describe digestive system of Pila.
- Que.2(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Write a note on Book lung of Scorpion.
 - (2) Write a note on statocyst in Pila.
- Que.2(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) Scorpion belongs to class
 - (2) Respiratory organ of Scorpion is
 - (3) Pila belongs to phylum
 - (4) In Pila, Statocyst is a organ of
 - (5) Scientific name of Pila is
- Que.3(A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Describe different type of spicules found in porifera.
 - (2) Give a general account of polymorphism in coelentrata.
- Que.3(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Describe mode of infection and pathogenecity of Trypanosoma gambiense.
 - (2) Write a note on Coral and reefs.
- Que.3(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) disease caused by Plasmodium vivex.
 - (2) When phytoflagellates synthesize their food by photosynthesis, means self feeding this type of nutrition is called as
 - (3) Parenchymula and Amphiblastula is the larva of phylum
 - (4) Phenomenon of polymorphism is the peculiarity of phylum
 - (5) The best example of largest coral reef is
- Que.4(A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Describe Ancylostoma duodenale as parasitic nematode.
 - (2) Describe metamorphosis in insects.

- Que.4(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Describe lifecycle of *Fasciola hepatica*.
 - (2) Describe asexual reproduction in Polychaetes.
- Que.4(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) Give any two parasitic adaptations in platyhelminthes.
 - (2) The disease Trichinosis caused by
 - (3) In Annelida, the segments of body is called
 - (4) Write any two economic importance of Arthropoda.
 - (5) Which hormone controls the process of metamorphosis in insects ?
- Que.5(A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Describe process of pearl formation.
 - (2) Describe water vascular system in class Asteroidea.
- Que.5(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Write a note on Auricularia Larva.
 - (2) Describe affinity of Balanoglossus.
- Que.5(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) Pearl oyster is commonly used for the process of
 - (2) Phenomenon of Torsion and Detorsion is found in phylum
 - (3) Larva of class Echinoidea is known as
 - (4) In water vascular system of Echinoderms radial canal opens in to
 - (5) Larva of Balanoglossus is known as
