

**B.Sc. Semester - 5 (Remedial) (CBCS) Examination****March/April-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) 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 Annelida 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 Platyhelminthes up to class.
- Que.1(C) Answer the following questions. (Any three out of five) (03)**
- 1) All unicellular animals are included in phylum.....
  - 2) Presence of canal system is the characteristic of phylum.....
  - 3) Flame cells are as excretory organs in phylum.....
  - 4) Closed type circulatory system is the characteristic of phylum.....
  - 5) Presence of water vascular system is the characteristic of phylum.....
- Que.2(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe digestive system of Scorpion.
  - 2) Describe male reproductive system of Pila.
- Que.2(B) Answer 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) Answer the following questions. (Any three out of five) (03)**
- 1) Scorpion belongs to class.....
  - 2) Body divisions of Scorpion are .....
  - 3) In scorpion exploring of ground and recognition of sex is done by.....
  - 4) In Pila, Statocyst is a organ of .....
  - 5) Pila belongs to phylum.....
- Que.3(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe Trypanosoma gambiense as pathogenic protozoan.
  - 2) Give a general account of polymorphism in coelentrata.
- Que.3(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a note on asexual reproduction in protozoa.
  - 2) Write a note on different type of spicules found in porifera
- Que.3(C) Answer the following questions. (Any three out of five) (03)**
- 1) Tse-tse fly is the vector of.....disease.
  - 2) When phytoflagellates synthesize their food by photosynthesis, means self feeding this type of nutrition is called as .....
  - 3) In porifera, skeleton is made by.....
  - 4) Polymorphism occurs in phylum.....
  - 5) Most notable example of barrier reef is.....

- Que.4(A) Answer the following questions. (Any one out of two) (07)**  
1) Describe *Ancylostoma duodenale* 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 asexual reproduction in Polychaetes.
- Que.4(C) Answer the following questions. (Any three out of five) (03)**  
1) *Fasciola hepatica* belongs to phylum.....  
2) Disease caused by *Trichinella spiralis* is known as.....  
3) In Annelids, the oldest segments are at the..... end.  
4) Give any three examples of crustacean larva.  
5) list out the hormones which play important role in metamorphosis in insects.
- Que.5(A) Answer the following questions. (Any one out of two) (07)**  
1) Write a note on process of pearl formation.  
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 Ophiopluteus 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) The best quality pearl is known as.....  
3) Echinopluteus is the larva of class.....  
4) In water vascular system of Echinodermata ring canal opens into .....  
5) Tornaria larva is the larva of.....

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