

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 2023 (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. Classify Phylum Protozoa up to class with suitable characters and examples.
 2. Classify phylum Echinodermata up to class with suitable characters and examples.
- Que.1(B) Answer the following questions. (any one out of two) (04)
1. Classify Phylum cnideria up to class with suitable examples.
 2. Classify Phylum Platyhelminthes up to class with suitable examples.
- Que.1(C) Answer the following questions. (any three out of five) (03)
1. Flagellated cells, which line the spongocoel in Poriferans are known as
 2. Which class of Cnidaria exhibit only polyp stage?
 3. Flatworms excretion is performed by.....
 4. Which class of molluscs possess eyes similar to vertebrates?
 5. Tube feet found in phylum
- Que.2(A) Answer the following questions. (any one out of two) (07)
1. Describe Reproductive system of Scorpion with labelled diagram.
 2. Describe Digestive system of Pila with neat and labelled diagram.
- Que.2(B) Answer the following questions. (any one out of two) (04)
1. Write a short note on book lung in Scorpion.
 2. Write a short note on Osphredium in Pila.
- Que.2(C) Answer the following questions. (any three out of five) (03)
1. Scorpion belong to class
 2. Mastigatory organ of pila is
 3. type of circulatory system found in scorpion.
 4. Scientific name of Pila.
 5. Function of pectines in Scorpion is
- Que.3(A) Answer the following questions. (any one out of two) (07)
1. Give a general account on mode of infection, pathogenacity, prevention and control of *Plasmodium vivax*
 2. Describe types and structure of skeleton system in porifera
- Que.3(B) Answer the following questions. (any one out of two) (04)
1. Write a short note on Asexual reproduction in protozoa.
 2. Write a short note on any two kind of coral reefs.
- Que.3(C) Answer the following questions. (any three out of five) (03)
1. Define holophytic nutrition in protozoa.
 2. disease caused by Tse-tse fly.
 3. Polyps feed on
 4. Larva of sponge is known as
 5. Polymorphism is the characteristics of phylum.....

- Que.4(A) Answer the following questions. (any one out of two) (07)
1. Give a general account of life cycle of *Fasciola hepatica* with suitable diagram.
 2. Describe different types larval forms of crustacea.
- Que.4(B) Answer the following questions. (any one out of two) (04)
1. Describe *Ancylostoma duodenale* as parasitic nematod.
 2. Write a short note on metamorphosis in insects.
- Que.4(C) Answer the following questions. (any three out of five) (03)
1. Cercaria and mata cercaria are the larva of
 2. disease caused by *Trichinella spiralis*.
 3. In annelides, the oldest segments are at the end.
 4. Asexual reproduction is found inclass of Annelida.
 5. Metamorphosis in insects regulated by
- Que.5(A) Answer the following questions. (any one out of two) (07)
1. Describe process of pearl formation in details.
 2. Give a general account of water vascular system of Echinodermata.
- Que.5(B) Answer the following questions. (any one out of two) (04)
1. Write a note on Auricularia larva.
 2. Describe tornaria larva in Hemichordata.
- Que.5(C) Answer the following questions. (any three out of five) (03)
1. The process of Torsion and Detorsion found in class of phylum mollusca.
 2. The best quality of Pearls is known as
 3. The larva of Starfish is
 4. In water vascular system of Echinoderms Madreporite opens in to
 5. Tornaria larva is the larva of
