

B.Sc. Semester - 5 (CBCS) Examination

Oct/Nov. - 2018

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) Explain. (Any one) (07)
1. Give general characters of phylum annelida and write its class with example.
 2. Classify following animals up to class with reasons.
(I) Leucosolenia (II) Crab
- (B) Write note on. (Any one) (04)
1. Character of phylum Arthropoda.
 2. Character of phylum Echinodermata.
- (C) Give answers in brief. (Any three) (03)
1. 'Aristotle's lantern' is peculiarity of which phylum?
 2. Nematocytes are found in which phylum?
 3. In which phylum close type circulatory system is found first time?
 4. Give name of excretory organs in phylum Arthropoda.
 5. State use of setae.
- Que-2 (A) Describe. (Any one) (07)
1. Male reproductive system of Scorpion.
 2. Draw only labeled diagram:- Nervous System of Sepia.
- (B) Write note on. (Any one) (04)
1. Respiratory organ of *Pasamnaeus Swammerdami*.
 2. Ink gland of Sepia.
- (C) Give answers in brief. (Any three) (03)
1. Explain term-Spermatophore.
 2. Draw only labeled diagram:- Book lung.
 3. Write function of Pecten.
 4. Write the name of Respiratory pigment in blood of Sepia.
 5. Write name of locomotory organ like Jet aircraft in Sepia.
- Que-3 (A) Describe. (Any one) (07)
1. Disease caused by Plasmodium in man and its mode of infection.
 2. What is polymorphism? Explain polymorphism in Obelia.

(B) Write note on. (Any one) (04)

1. Sponge Industry.
2. Any two Coral reefs.

(C) Give answers in brief. (Any three) (03)

1. Give name of locomotory organ in Protozoa.
2. Explain term- Scleroblast.
3. Write any two characters of disease due to Leishmania.
4. What is Coral?
5. Draw only diagram:- Triaxon spicule.

Que-4 (A) Describe. (Any one) (07)

1. Parasitic adaptation of Fasciola.
2. Metamerism in Annelid and its significance.

(B) Write note on. (Any one) (04)

1. Zoea larva.
2. Characters of disease caused by Ascaris.

(C) Give answers in brief. (Any three) (03)

1. Megalopa is larva of which animal.
2. Write any two characters of disease due to Hook worm.
3. Write any two zoological importance of Peripatus.
4. What is Metamorphosis?
5. Give a name of larva of Prawn.

Que-5 (A) Describe. (Any one) (07)

1. Process of Torsion in mollusca.
2. Water vascular system in Starfish.

(B) Write note on. (Any one) (04)

1. Doliolaria larva.
2. Affinities of Balanoglossus.

(C) Give answers in brief. (Any three) (03)

1. What is Detorsion?
2. Give a name of larva of Starfish.
3. Write function of Tiedemann's body.
4. Write different division of foot in typical gastropods.
5. Pleuro visceral nerve converted in to _____ shape due to process of Torsion.
