



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

**Bachelor's Degree Examination – March 2021
I Semester**

**Class : I UG
Major : Zoology**

**Time : 3 Hours
Max. Marks: 100**

18BZOC02 Invertebrata II

Part A

10 x 1 = 10

Choose the Correct Answer

1. Colour of the body in earthworm is due to the presence of
 - a. Haemoglobin
 - b. Blood
 - c. Porphyrin
 - d. Haemocyanin
2. The most effective organ for food digestion in earthworm is
 - a. Mouth
 - b. Buccal cavity
 - c. Pharynx
 - d. Stomach
3. Anticoagulant secreted by leech
 - a. Heparin
 - b. Hirudin
 - c. Hematin
 - d. Heamoglobin
4. The mode of feeding in leech is
 - a. Herbivorous
 - b. Carnivorous
 - c. Omnivorous
 - d. Sanguinivorous
5. A moth is closely related to
 - a. Butterfly
 - b. Cricket
 - c. Beetle
 - d. Wasp
6. Nauplius larva belongs to
 - a. Annelida
 - b. Arthropoda
 - c. Echinodermata
 - d. Mollusca
7. The respiratory organs in freshwater mussel are
 - a. book lungs
 - b. pulmonary sacs
 - c. gills
 - d. pulmonary siphons
8. Identify the larva which is present only in members of gastropods
 - a. Trocophore
 - b. Veliger
 - c. Glochidium
 - d. Muller's Larva
9. The term "NOT" applicable to Echinodermata is
 - a. Madreporite
 - b. Podia
 - c. Marine
 - d. Bilateral symmetry
10. Sea lilies are the members of class
 - a. Ophiuroidea
 - b. Asteroidea
 - c. Mollusca
 - d. Echinoidea

Part B
Answer ALL questions
Each answer should not exceed 400 words or two pages

5 x 6 = 30

- 11.a. Write the general characters of Phylum Annelida.
(or)
- 11.b. Write a note on the nervous system of earth worm.
- 12.a. Give an account on metamerism.
(or)
- 12.b. Describe the excretory system in *Hirudinaria*.
- 13.a. "Peripatus is a connecting link between Annelida and Arthropoda" – Justify.
(or)
- 13.b. Write in detail about the appendages of prawn and its functions.
- 14.a. Describe the radula of pila with a diagram.
(or)
- 14.b. Explain the male reproductive system in Pila.
- 15.a. List out the general characters of Phylum Echinodermata.
(or)
- 15.b. Write short notes on a) Madreporite b) Pedicellaria.

Part C
Answer ALL questions
Each answer should not exceed 800 words or fourpages

5 x 12 = 60

- 16.a. Explain the external morphology of *Megascolex mauritii*.
(or)
- 16.b. Classify phylum Annelida and write the salient features with examples.
- 17.a. Write an essay on tube dwelling Polychaetes.
(or)
- 17.b. Discuss the encretory systems in annelids.
- 18.a. Give an account on the respiratory organs in Arthropoda.
(or)
- 18.b. Explain in details about the larval forms of Crustacea.
- 19.a. Give a detailed account on torsion and detorsion in gastropods.
(or)
- 19.b. Explain the process of respiration in Pila.
- 20.a. Write an essay on the larval forms of Echinodermata. Add a note on evolutionary significance.
(or)
- 20.b. Write notes on the water vascular system of starfish.
