

# **KAMARAJ COLLEGE (Autonomous)**

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

**(6 Pages)**

**Reg. No: .....**

**Question. Code No : 2400061**

**Sub Code : 24UMZ011**

**UG Degree - End Semester Examinations, November 2024**

**First Semester**

**B.Sc. Zoology**

**Major - INVERTEBRATA**

**(For those who joined in July 2024 onwards)**

**Time : 3Hours**

**Maximum : 75 Marks**

**PART : A – (10 × 1 = 10 Marks)**

**Answer ALL Questions**

**Choose the correct answer :**

1. Which of the following protozoan causes sleeping sickness in humans?  
(a) Leishmania                      (b) Entamoeba  
(c) Trypanosoma                      (d) Plasmodium
2. What is the primary function of the canal system in sponges?  
(a) Reproduction  
(b) Circulation of water for feeding, respiration, and

excretion

- (c) Locomotion
  - (d) Protection from predator
3. Which class of Coelenterata includes corals and sea anemones?
- (a) Hydrozoa
  - (b) Scyphozoa
  - (c) Anthozoa
  - (d) Cubozoa
4. What adaptation helps *Fasciola hepatica* attach to its host?
- (a) Hooks and suckers
  - (b) Segmentation of the body
  - (c) Long cilia
  - (d) Presence of a pseudocoel
5. How is *Enterobius vermicularis* transmitted?
- (a) Through contaminated water
  - (b) By direct contact with infected individuals or contaminated surfaces
  - (c) By mosquito bites
  - (d) Through soil contaminated with infective eggs
6. Which structure helps in locomotion in *Nereis*?
- (a) Setae
  - (b) Parapodia
  - (c) Pseudopodia
  - (d) Flagella
7. Which of the following is a characteristic feature of Phylum Arthropoda?
- (a) Segmented body with jointed appendages
  - (b) Acoelomate and unsegmented body
  - (c) Bilateral symmetry and pseudocoelom
  - (d) Radial symmetry and endoskeleton
8. Choose the economic importances of honeybees
- (a) Pollination and silk production

- (b) Pollination and honey production
  - (c) Pest control and wax production
  - (d) Larval therapy and dye production
9. Which of the following product derived from Mollusca is economically important?
- (a) Pearls
  - (b) Silk
  - (c) Honey
  - (d) Wool
10. Which of the following larval form is commonly observed in Echinoderms?
- (a) Planula
  - (b) Bipinnaria
  - (c) Trochophore
  - (d) Veliger

**PART B - (5X5=25 Marks)**

**Answer ALL Questions choosing either (a) or (b).**

**Answer should not exceed 250 words.**

11. (a) What is the mode of transmission and disease caused by *Entamoeba histolytica*?

**(OR)**

(b) Present the general characters of the phylum Porifera.

12. (a) List the classes of phylum Coelenterata with an example.

**(OR)**

(b) What are the general characters of phylum Platyhelminthes?

13. (a) Express the parasitic adaptations observed in Nematodes.

**(OR)**

(b) Name the major classes of phylum Annelida and provide one example for each.

14. (a) State the economic importance of Insects

**(OR)**

(b) Present the principles of Integrated Pest Management

15. (a) What are the general characters of the phylum Mollusca?

**(OR)**

(b) Explain the morphology of Asterias.

**PART C - (5 × 8 = 40 Marks)**

**Answer ALL Questions choosing either (a) or (b).**

**Answer should not exceed 500 words.**

16. (a) Analyze the lifecycle of Plasmodium.

**(OR)**

(b) Discuss the types of canal system in sponges.

17. (a) Discuss the types economic importance of coral reefs.

**(OR)**

(b) Evaluate the various parasitic adaptations present in helminthine parasites and their significance in host survival.

18. (a) Explain the lifecycle of *Ascaris lumbricoides*

**(OR)**

(b) Enumerate the external morphology and locomotion in *Nereis*.

19. (a) Classify phylum Arthropoda with suitable examples.

**(OR)**

(b) Write an essay on impact of any three insect pests on crop yield and their control measures.

20. (a) Present the morphology of *Pila globosa* with diagram..

**(OR)**

(b) Explain the structure and function of the water vascular system in Echinoderms.