

# **KAMARAJ COLLEGE (Autonomous)**

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

(5 Pages)

Reg.No:.....

Question. Code No : 25E00605

Sub Code : 24UMZ011

**UG Degree - End Semester Examinations – April 2025**

**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 disease is caused by *Entamoeba histolytica*?  
(a) African sleeping sickness  
(b) Amoebic dysentery

- (c) Kala-azar (d) Malaria
2. Which type of canal system is found in Sycon?  
(a) Syconoid (b) Leuconoid  
(c) Asconoid (d) Rhagon
3. What is the main distinguishing feature of Cnidarians?  
(a) Presence of a notochord (b) Pseudocoelom  
(c) Presence of cnidocytes (d) Chitinous exoskeleton
4. Which of the following is the primary host of *Fasciola hepatica*?  
(a) Humans (b) Cattle and sheep  
(c) Mosquitoes (d) Snails
5. How is *Ascaris lumbricoides* transmitted to humans?  
(a) Through contaminated food and water  
(b) Through mosquito bites  
(c) Direct contact with an infected person  
(d) Airborne transmission
6. Nereis is commonly found in:  
(a) Freshwater (b) Parasitic habitats  
(c) Terrestrial environments (d) Marine environments
7. *Penaeus indicus* is commonly known as:  
(a) King Crab (b) Indian White Shrimp

- (c) Tiger Shrimp                      (d) Lobster
8. What is the primary mode of control for rice pests?
- (a) Chemical pesticides only  
(b) Crop rotation alone  
(c) Manual removal  
(d) Biological control, cultural practices, and chemical pesticides
9. In which of the following class of Mollusca *Pila globosa* belongs to:
- (a) Cephalopoda                      (b) Bivalvia  
(c) Gastropoda                      (d) Scaphopoda
10. Which of the following is a larval form of Asteroidea?
- (a) Bipinnaria                      (b) Pluteus  
(c) Auricularia                      (d) Doliolaria

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

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

**Answer should not exceed 250 words.**

11. (a) Explain briefly the symptoms and treatment of amoebic dysentery.

**(OR)**

- (b) What are the characteristics of Phylum Porifera?

12. (a) Mention the economic benefits of coral reefs.

**(OR)**

(b) What are the general characteristics of Phylum Platyhelminthes?

13. (a) What are the symptoms of ascariasis?

**(OR)**

(b) What is the ecological importance of earthworms?

14. (a) What are the characteristics of phylum Arthropoda?

**(OR)**

(b) Write the economic importance of insects.

15. (a) How are squids and octopuses used in the food industry?

**(OR)**

(b) What is the function of tube feet?

**PART - C (5 X 8 = 40 Marks)**

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

**Answer should not exceed 500 words.**

16. (a) Describe the structure of Paramecium with a labelled diagram.

**(OR)**

(b) Explain the canal system in sponges and its significance.

17. (a) What are the major threats to coral reefs, and how can they be conserved?

**(OR)**

(b) Describe the life cycle of *Fasciola hepatica* with a labelled diagram.

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

**(OR)**

(b) Describe the external morphology of cockroach with a labelled diagram.

19. (a) Describe the external morphology of *Penaeus indicus* with a labelled diagram

**(OR)**

(b) Enumerate the principles of integrated pest management.

20. (a) Describe the external morphology and internal anatomy of *Pila globosa*.

**(OR)**

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