

# **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 : 25000601**

**Sub Code : 25UMZ011**

**UG Degree - End Semester Examinations, November 2025**

**First Semester**

**B.Sc. ZOOLOGY**

**Invertebrate**

**(For those who joined in June 2025 onwards)**

**Time : 3 Hours**

**Maximum : 75 Marks**

**PART – A (10 × 1 = 10 Marks)**

**Answer ALL Questions**

**Choose the correct answer:**

1. Which of the following is considered skeletal elements of sponges?
  - (a) Spicules
  - (b) Nematocysts
  - (c) Cilia
  - (d) Pseudopodia
2. Which structure in *Paramecium* helps in locomotion?
  - (a) Flagella
  - (b) Pseudopodia
  - (c) Cilia
  - (d) Setae

3. The stinging cells present in coelenterates are called
- (a) Choanocytes (b) Cnidocytes  
(c) Spicules (d) Flame cells
4. Which larval stage is found in the life cycle of *Fasciola hepatica*?
- (a) Nauplius (b) Planula  
(c) Miracidium (d) Ephyra
5. Name the body cavity in Aschelminthes
- (a) Coelom (b) Hemocoel  
(c) Pseudocoel (d) Acoelom
6. Which of the following is a characteristic feature of Annelida?
- (a) Pseudocoelom (b) Radial symmetry  
(c) Metameric segmentation (d) Cnidocytes
7. Which of the following is a distinguishing feature of arthropods?
- (a) Ciliated epidermis (b) Jointed appendages  
(c) Pseudocoelom (d) Flame cells
8. Find the scientific name of the Indian prawn
- (a) *Peripatus indicus* (b) *Penaeus indicus*  
(c) *Oryctes rhinoceros* (d) *Scylla serrata*
9. Which of the following organs is used for feeding in molluscs like *Pila globosa*?

(a) Setae

(b) Radula

(c) Tube feet

(d) Parapodia

10. The water vascular system in echinoderms opens to the outside through

(a) Ampulla

(b) Madreporite

(c) Tube feet

(d) Sieve plate

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

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

**Answer should not exceed 250 words.**

11. (a) Explain the various modes of locomotion in Protozoa.

**(OR)**

(b) Write a short note on the canal system in Sycon.

12. (a) List the general characters of Phylum Coelenterata.

**(OR)**

(b) Describe about the coral reefs and their types.

13. (a) Portray the life cycle of *Ascaris lumbricoides*.

**(OR)**

(b) Enumerate the metamerism in Annelida with reference to *Nereis*.

14. (a) Explain the various larval forms found in Crustacea.

**(OR)**

(b) Explain the principles of Integrated Pest Management (IPM).

15. (a) List the economic importance of cephalopods.

**(OR)**

(b) Describe their general characters of Phylum Echinodermata.

**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 and reproduction in *Paramecium* with a neat labelled diagram.

**(OR)**

(b) Describe the general characters and classification of Phylum Porifera up to classes.

17. (a) Explain the parasitic adaptations of *Fasciola hepatica*

**(OR)**

(b) Discuss the economic importance of corals and coral reefs

18. (a) Write an essay on the parasitic adaptations and life cycle of *Ascaris lumbricoides*.

**(OR)**

(b) Describe the reproductive system of *Nereis* in detail.

19. (a) Describe the external features and economic importance of *Penaeus indicus*.

**(OR)**

(b) Describe major insect pests of sugarcane and coconut and their control measures.

20. (a) Describe the anatomy, digestive system and reproductive system of *Pila globosa* with a neat diagram.

**(OR)**

(b) Classify Phylum Echinodermata up to classes and describe general characteristics.