

**SET-01**

**PART – A**

[5]

- 1. Fill in the blanks:** [0.5]
- a) Banana peel can be used as soaking/steeping substance for \_\_\_\_\_ culture.
  - b) The chironomid larvae is known as \_\_\_\_\_.
  - c) Calanoida is an important order of \_\_\_\_\_.
  - d) Algae is added regularly to the rotifer culture to \_\_\_\_\_
  - e) \_\_\_\_\_ are commonly known as ‘wheel animalcules’.
- 2. Matching Table:** [0.5]
- a) Daphnia - Brine shrimp
  - b) Brachionus - Cladoceran
  - c) Paramecium - Forage Fish
  - d) Artemia - Rotifer
  - e) Clupeid - Infusorian

**PART – B**

[10]

- 3. Choose the correct answer or True/ False statement:** [1]
- a) Blood worms are called as tubifex.
  - b) *Brachionus rotundiformis* is a species of cladocerans.
  - c) Resting eggs of crustacean organisms are generated in unfavourable conditions.
  - d) Live organisms collected from nature for food can be source of infection to fishes.
  - e) Spirulina is an example of blue green algae.
- 4. Explain the following:** [1]
- a) Zooplankton
  - b) Blood Worm
  - c) Moina
  - d) Potato-peel culture
  - e) Starter Culture/ Inoculum

**PART – C (Answer any Three)**

[5]

- 5. Describe the culture process of paramecium (Infusorian) in detail.
  - 6. Explain the spirulina culture process in brief.
  - 7. Discuss *artemia* decapsulation and hatching method along with Diagram.
  - 8. What is the importance of live feed in larval rearing of finfish.
- 9. Write short notes on any One:-** [5]
- a) Biology of cladocerans
  - b) Life cycle of copepods.

**SET-02**

**PART – A**

[5]

2. Fill in the blanks: [0.5]
- a) Potato peel can be used as soaking/steeping substance for \_\_\_\_\_ culture.
  - g) \_\_\_\_\_ is the removal of the outer membrane of an artemia cyst called the chorion by dissolution in hypochlorite.
  - h) Harpacticoids and cyclopoids are important sub-orders of \_\_\_\_\_.
  - i) The Red Algae is otherwise known as \_\_\_\_\_.
  - j) \_\_\_\_\_ are commonly known as ‘water fleas’.

10. Matching Table: [0.5]

- a) Moina - Brine shrimp
- b) Artemia - Cladoceran
- c) Tubifex - Vermicompost
- d) Calanus - Microworm
- e) Earthworm - Copepod

**PART – B**

[10]

11. Choose the correct answer or True/ False statement: [1]
- a) Earthworm enhances nutrient cycling in soil.
  - b) *Brachionus plicatilis* is a freshwater rotifer species
  - c) Infusorians feed on the bacteria that develop in the culture media.
  - d) First phase of algal growth is known as exponential phase.
  - e) Tubifex are also known as earthworms

12. Explain the following: [1]

- a) Algal culture growth phases
- b) Decapsulation of *artemia* cyst
- c) Candidate species of BGA
- d) Importance of Baitfish
- e) Species of Forage fish
- f)

**PART – C (Answer any Three)**

[5]

- 13. Describe the culture technique of *Brachionus* sp. (Rotifer).
- 14. Explain culture requirement and process of Tubifex worm.
- 15. Describe diatom candidate species and culture technique
- 16. Discuss brine shrimp culture process.
- 17. Write short notes on any **One**:-

[5]

- a) Chironomid larvae
- b) Daphnia biology and life cycle

