

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 : 25000603

Course Code : 25USZ011

UG Degree - End Semester Examinations, November 2025

First Semester

B.Sc. ZOOLOGY

Ornamental Fish Farming and Management

(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. Select the organism related to Pisciculture.

(a) Aquatic animals

(b) Prawn

(c) Fishes

(d) Starfish

2. Choose the zoological name of goldfish.

(a) *Cyprinus carpio*

(b) *Betta splendens*

(c) *Pterophyllum scalare*

(d) *Carassius auratus*

3. Name of the mode of reproduction in Guppy.
- (a) Viviparous (b) Oviparous
(c) Ovoviparous (d) Larviparity
4. Name the important water plant for planting in the aquarium is
- (a) *Vallisneria* (b) *Hydrilla*
(c) *Najas* (d) *Lemma*
5. Select a WRONG statement about aquarium live plants.
- (a) Serves as food source (b) Inhibits algal growth
(c) Absorbs toxins (d) Does not absorb CO₂
6. Recall the universally accepted and best known live feed.
- (a) *Infusorians* (b) *Tubifex*
(c) *Daphnia* (d) *Meal worms*
7. Find the fungal disease.
- (a) Gill rot (b) Erythroderma
(c) Zernaesis (d) Arugulosis
8. Which is formed by the small stones, gravel and sand placed at bottom of aquarium?
- (a) Compost (b) Platform
(c) Paste (d) Lime

9. Which ancient Indian architectural science focuses on harmonizing a living space with natural energies to promote well-being?
- (a) Yoga Sutras (b) Ayurveda
(c) Vastu Shastra (d) Mahabharata
10. What is the calming effect of watching ornamental fish primarily known to reduce?
- (a) Blood sugar (b) Appetite
(c) Anxiety and stress (d) Heartburn

PART - B (5 X 5 = 25 Marks)

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

Answer should not exceed 250 words.

11. (a) List the indigenous varieties of ornamental fishes.

(OR)

- (b) List the exotic varieties of ornamental fishes.

12. (a) Compare egg layers with live bearers.

(OR)

- (b) Analyse the important features of goldfish.

13. (a) Examine the importance of aquarium plants.

(OR)

- (b) List the advantages of live feed in aquarium.

14. (a) Examine the role of aerator and filters in aquarium.

(OR)

(b) Categorize the criteria of conditioning, packing and transport of ornamental fishes for trade.

15. (a) Fish keeping is good for your mental health - Analyze.

(OR)

(b) Ornamental fish farming deeply ingrained in Indian philosophy - Inspect this statement.

PART - C (5 X 8 = 40 Marks)

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

Answer should not exceed 500 words.

16. (a) Defend the steps involved in the identification of commercially important ornamental fishes.

(OR)

(b) Explain the scope and importance of ornamental fish culture.

17. (a) Defend the breeding, hatchery and nursery management of Gold fish.

(OR)

(b) Explain the biology and nursery management of live bearers of ornamental fishes.

18. (a) Elaborate the account on any three live feed culture for ornamental fish farming.

(OR)

(b) Propose the method to identify the locally available live feed organisms.

19. (a) Criticize the effectiveness of common water quality management practices in home aquariums.

(OR)

(b) Explain the primary bacterial diseases affecting ornamental fish.

20. (a) Compile the aesthetic and therapeutic benefits of ornamental fish keeping in maintaining peaceful and harmonious home.

(OR)

(b) Develop a business plan for a new company specializing in ornamental fish products and services that leverage their therapeutic and aesthetic benefits.