

# KAMARAJ COLLEGE (Autonomous)

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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(3 Pages)

Reg. No:.....

Question Code: 26E00604

Course Code : 24USZ011/25USZ011

UG Degree - End Semester Examinations, April 2026

First Semester  
B.Sc., ZOOLOGY

Ornamental Fish Farming and Management

(For those who joined in July 2024 and June 2025 onwards)

Time : 3Hours

Maximum : 75 Marks

## PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

- CO:1  
K:1
1. Which place is commonly used for keeping ornamental fishes?
- (a) Pond only (b) Aquarium  
(c) Sea cage (d) Reservoir
- CO:1  
K:1
2. Guppy belongs to the family of:
- (a) Cyprinidae (b) Cichlidae  
(c) Poeciliidae (d) Characidae
- CO:2  
K:1
3. Newly hatched fry are usually fed with
- (a) Rice grains (b) Egg yolk  
(c) Bread pieces (d) Meat
- CO:2  
K:1
4. The viviparous fishes are also known as
- (a) Mouth breeders (b) Nest builders  
(c) Live bearers (d) Egg layers
- CO:3  
K:2
5. The major nutrient required for fish growth
- (a) Protein (b) Carbohydrate  
(c) Salt (d) Fiber
- CO:3  
K:2
6. The important water plant for planting in the aquarium is
- (a) Vallisneria (b) Hydrilla  
(c) Najas (d) Lemna
- CO:4  
K:2
7. Which type of lighting is best suited for planted aquariums?
- (a) Incandescent (b) Fluorescent  
(c) LED (d) Halogen
- CO:4  
K:1
8. Which one of the following disease is caused by fungi?
- (a) Gill rot (b) Erythroderma  
(c) Zernaesis (d) Arugulosis

- CO:5 9. The passage suggests that aquarium culture influences:  
K:1 (a) Physical health only (b) Economic growth  
(c) Mental well-being and (d) Technological innovation  
calmness
- CO:5 10. In which philosophical tradition is the concept deeply  
K:1 ingrained?  
(a) Western psychology (b) Indian philosophy  
(c) Chinese medicine (d) Greek ethics

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

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

**Answer should not exceed 250 words.**

- CO:1 11. (a) Write an account on ornamental fish keeping.  
K:3 **(OR)**  
(b) Give a note on any two indigenous ornamental fishes.
- CO:2 12. (a) Explain the types of egg laying ornamental  
K:3 fishes.  
**(OR)**  
(b) Discuss the nursery management of guppy.
- CO:3 13. (a) Enumerate the importance of aquarium plants in fish  
K:4 culture.  
**(OR)**  
(b) Explain the significance of formulated feed.
- CO:4 14. (a) Write about the accessories needed in aquarium.  
K:4 **(OR)**  
(b) Analyse the water quality management in aquarium.
- CO:5 15. (a) Describe how aquarium culture contributes to mental  
K:3 well-being as per Indian philosophy.  
**(OR)**  
(b) Explain the connection between aquarium culture and  
ayurvedic traditions.

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

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

**Answer should not exceed 500 words.**

- CO:1 16. (a) Give a detailed account on scope and importance of  
K:3 ornamental fish culture.  
**(OR)**  
(b) Describe any three exotic ornamental fishes.
- CO:2 17. (a) Discuss the hatchery and nursery management for  
K:5 goldfish.

**(OR)**

(b) Explain the types and biology of live bearing aquarium fishes.

CO:3 18. (a) Write an essay on methods of propagation of aquarium  
K:5 plants.

**(OR)**

(b) Elaborate the culture of Live feed for aquarium fishes.

CO:4 19. (a) With a suitable diagram explain the design and  
K:4 construction of an aquarium.

**(OR)**

(b) Describe the any three diseases of ornamental fishes, prevention, control and treatment.

CO:5 20. (a) Discuss the therapeutic benefits of aquarium culture as  
K:4 described in the passage. How does it relate to Indian traditions?

**(OR)**

(b) Analyze the role of trade regulations and export policies in promoting India's ornamental fish industry.