

Reg. No. :

Code No. : 30794 E

Sub. Code : ESZO 11

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

First Semester

Zoology

Skill Enhancement Course — ORNAMENTAL FISH
FARMING AND MANAGEMENT

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which one of the following is the exotic ornamental fish?
(a) Gold fish (b) Koi
(c) Molly (d) All of these

2. Egg laying fishes are called
(a) Viviparous (b) Oviparous
(c) Ovoviviparous (d) Parthenogenetic

3. Fishes which feed on plants are called
 - (a) Detritivores
 - (b) Herbivores
 - (c) Carnivores
 - (d) Omnivores
4. Fishes which lay their eggs in mud are
 - (a) egg buriers
 - (b) egg scatters
 - (c) nest builders
 - (d) egg depositors
5. A freshwater zooplankton used as live feed for ornamental fishes
 - (a) Artemia
 - (b) Spirulina
 - (c) Daphnia
 - (d) All of these
6. An example of live feed
 - (a) Artemia
 - (b) Daphnia
 - (c) Euglena
 - (d) All of these
7. The accessory used to increase oxygen content of water
 - (a) Aquarium heater
 - (b) Aerator
 - (c) Thermometer
 - (d) Filter
8. Which one of the following is the ectoparasite causing diseases to ornamental fish?
 - (a) Argulus
 - (b) Tape worm
 - (c) Aeromonas
 - (d) Pseudomonas
9. The optimum pH for an aquarium
 - (a) 8-9
 - (b) 9-10
 - (c) 3-4
 - (d) 7-8

10. The rearing and breeding of fish in artificial environment is called
 - (a) wild collection
 - (b) fish farming
 - (c) fish breeding
 - (d) selective breeding

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write an account on indigenous ornamental fishes.

Or

 (b) Describe the characteristic features of gold fish.
12. (a) Discuss the breeding habits in aquarium fishes.

Or

 (b) What are mouth brooders? Mention the types with example.
13. (a) Write an account on feeding habits of fishes.

Or

 (b) Outline the types of artificial feed.
14. (a) Describe the types of tanks used for ornamental fish culture.

Or

 (b) Write an account on the fungal diseases of fish.
15. (a) Analyse the domestic scenario of ornamental fish trade potential.

Or

 (b) Write notes on transport of ornamental fishes.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Mention any five exotic ornamental fishes and their characteristic features.
- Or
- (b) Describe the biology of egg layers.
17. (a) Explain the biology of live bearers in aquarium.
- Or
- (b) Write an essay on induced breeding in fishes.
18. (a) Describe the steps involved in the preparation of fish feed.
- Or
- (b) Write an account on the culture of artemia.
19. (a) Write an account on the materials required for the construction of aquarium tank.
- Or
- (b) Explain the parasitic diseases of ornamental fishes.
20. (a) Discuss the import and export strategies of ornamental fish.
- Or
- (b) Explain conditioning, packing and transport of fishes.