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Reg. No. :

Code No. : 10370 E Sub. Code : ESZO 11/
FSZO 11

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2025.

First Semester

Zoology — Main

Skill Enhancement Course-I — 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, among the following is an indigenous fish?
- (a) Gold fish (b) Angel fish
(c) Guppy fish (d) Zebra fish

2. Scope of ornamental fish keeping is
- (a) It is a hobby
(b) Increase attachment with nature
(c) Self employment opportunity
(d) All the above
3. "Some fishes, releases their eggs and sperms into the water for fertilization" which type of reproduction is it
- (a) Ovoviviparous (b) Viviparous
(c) Oviparous (d) None of these
4. How will you call the fishes, lays their eggs among aquatic plants?
- (a) Lithophilis (b) Phytophilis
(c) Ostracophilis (d) Psammophilis
5. Important submerged rooted aquarium plant
- (a) *Acorus calamus*
(b) *Vallisneria spiralis*
(c) *Echinodermus paniculatus*
(d) All the above

6. Why does an aquarium with live plants, faces oxygen depletion during night hours
- (a) Plants absorbs oxygen
 - (b) Fishes absorbs oxygen
 - (c) Both (a) and (b)
 - (d) None of the above
7. Choose the suitable pH for aquarium keeping
- (a) 6.6 - 7.5 (b) 8.2 - 8.5
 - (c) 4.3 - 5.7 (d) 2.8 - 3.3
8. If you notice attachment of an parasite on fin of your aquarium fish, how will you call this attached parasite
- (a) Endoparasite (b) Ectoparasite
 - (c) Both (a) and (b) (d) None of these
9. (i) "Threatened fishes are not permitted to import"
- (ii) "Threatened fishes are permitted to import"
- (a) (i) is incorrect and (ii) is correct
 - (b) (i) is correct and (ii) is incorrect
 - (c) (i) is correct and (ii) is correct
 - (d) (i) is incorrect and (ii) is incorrect

10. What is the simplest, closed-system method of ornamental fish packing?
- (a) Tanks fitted on lorry
 - (b) Sealed plastic bags
 - (c) Sealed tin containers
 - (d) Sealed double containers

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain the scope and importance of ornamental fish culture.
- Or
- (b) Write about any two exotic ornamental fishes.
12. (a) Explain the differences in the breeding process of goldfish and guppy fish.
- Or
- (b) What is hatchery? Explain the types of hatchery.

13. (a) Describe the various live feed organisms used for ornamental fishes.

Or

- (b) Write a summary on aquarium plants.

14. (a) Explain the types of aquarium tanks.

Or

- (b) Write a note on the bacterial diseases that affects ornamental fishes.

15. (a) Explain the contribution of ornamental fish culture to the empowerment of Indian economy.

Or

- (b) Elaborate write the packing and transportation 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) What is ornamental fish culture? Explain the advantages of ornamental fish culture.

Or

- (b) Briefly explain about the popular ornamental freshwater fishes.

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17. (a) Summarize the induced breeding technique used to breed ornamental fishes.

Or

- (b) Describe the types of reproduction found in ornamental fishes.

18. (a) Elucidately write about live and artificial plants used in aquarium with their advantages and disadvantages.

Or

- (b) Add a note on artificial feed.

19. (a) How will you construct an aquarium at your home?

Or

- (b) Discuss about the accessories used in an aquarium.

20. (a) What are the acts and regulations for export of ornamental fishes?

Or

- (b) Discuss the socio-economic benefits of ornamental fish culture.

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