

2023

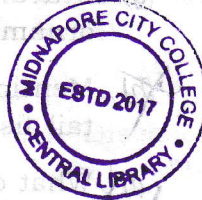
**BFSC 3rd Semester Examination**

**Ornamental Fish Production and Management**

PAPER — BFSC-305

Full Marks : 50

Time : 2 hours



*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers  
in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

1. Answer any **ten** questions from the following :  
2×10=20

- (a) Write down the gestation periods of the Guppy and Molly fish.
- (b) State the advantages of frameless aquarium and year of its first introduction.
- (c) What are the major reasons for mortality of ornamental fishes during transport?

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( Turn Over )

( 2 )

- (d) Classify different types of ornamental fish feed.
- (e) What are the prospects of ornamental fish culture in India?
- (f) Write names (common and scientific) of two live bearer ornamental fishes.
- (g) State the importance of live feed in ornamental fish rearing.
- (h) Mention the sexual dimorphism of sword tail fish.
- (i) What do you mean by biofiltration?
- (j) Mention the name of different varieties of Gold fish (*Carassius auratus*).
- (k) Write the importance of aquarium plants and mention two names.
- (l) Mention different types of filter media used in aquarium.
- (m) Define Aquascaping and mention its importance.
- (n) Mention the names (common and scientific) of two indigenous ornamental fishes.
- (o) Indicate the causative agent and treatment of 'Cotton wool disease' of fish.

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( 3 )

2. Answer any six questions from the following :  
5×6=30

- (a) Write step by step setup and maintenance of the home aquarium.
- (b) Describe suitable water quality parameters and their management in aquarium.
- (c) Give a brief account on the present status of ornamental fish trade in India.
- (d) Mention the causative agent, symptoms and treatment of 'White Spot Disease' of ornamental fish.  
1+1½+2½=5
- (e) Write a note on sedatives used in aquarium fish transportation.
- (f) Define 'nest builder' ornamental fish with proper examples. Write the breeding procedure of any nest builder fish. 2+3=5
- (g) Write down different applications of genetics and biotechnology for producing quality strains.
- (h) Briefly explain the process of infusorians live feed culture.
- (i) Write a note on different types of filter and their utility in aquarium.

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(i) Write down the important factors that influence the export potential of ornamental fish.

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