2022

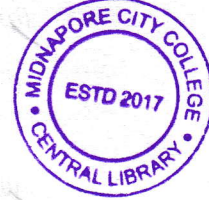## B.F.Sc. 3rd Semester Examination

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** from the following questions :

    $2 \times 10 = 20$

    (a) Mention sexual dimorphism of a sword tail fish.

    (b) Write a note on secondary sexual characters.

    (c) What is parental care?

    (d) Mention the names (common and scientific) of one live bearer and egg depositor aquarium fishes.

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(2)

(e) Mention the names (common and scientific) of two indigenous ornamental fishes.

(f) State the advantages of frameless aquarium.

(g) Write down the advantages of aquarium plants.

(h) Why is the thermostat used in aquarium?

(i) Write a note on the advantages of aquarium beds.

(j) Mention different types of filter media used in aquarium.

(k) What do you mean by biofilter?

(l) Mention the name of two aquarium plants.

(m) What is 'gravity spot' in ornamental fish?

(n) What are the main symptoms of velvet disease in aquarium fishes?

(o) What are the major problems encountered during transportation of aquarium fishes?

2. Answer any **six** from the following questions :

(a) Describe suitable water quality parameters and their management in aquaria. 5

(Continued)

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(3)

(b) Name one fish with ornamental importance having parental care. Mention its parental care in detail. 5

(c) Describe different aspects of brood fish management during ornamental fish breeding. 5

(d) How do you construct a frameless aquarium? 5

(e) Briefly state the preventive measures that would be effective to prevent common aquarium fish diseases. 5

(f) Write a note on different types of filters and their utility in aquarium. 5

(g) Discuss the role of genetics and biotechnology for producing quality strain. 5

(h) Write a note on sedatives used in aquarium fish transportation. 5

(i) Describe different kinds of feeds used in aquarium. 5

(j) What are the major nutrient requirements of ornamental fishes? 5

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