

2025

M.Sc. 1st Semester Examination

FISHERIES SCIENCE

Paper : FSCC401X1

[Reproduction in Finfish and Shellfish]

Full Marks : 25

Time : One Hour

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. Write a note on fecundity in fish and its significance.
2. Name the hormones secreted from proximal pars distalis.
3. Mention the sexual dimorphism exhibited by carps.
4. Explain briefly on factors affecting gonadal maturation in fish.

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. Write different forms of sexuality in fishes with suitable examples.

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6. Write the characteristics of various stages of fish oocyte during its development.
7. Describe the role of pineal hormone in fish reproduction.
8. Explain the significance of brood stock management for quality seed production.

Group - C

Answer any *one* question : 8×1=8

9. Discuss different phases of reproductive cycle of male *Labeo rohita*. State the signs exhibited by brood fish when it is under stress. 5+3
10. Describe the neuroendocrine regulation of final maturation and ovulation of tropical teleost fish.

Internal Assessment : 5 marks
