

2025

M.Sc. 1st Semester Examination

FISHERIES SCIENCE

Paper : FSCC402X1

[Advanced Aquatic Animal Nutrition]

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. Energy metabolism in fish is similar to that in mammals and birds with two notable exceptions. Write the exceptions.
2. What do you mean by probiotic feed?
3. Define ecofriendly feed.
4. What do you mean by nutraceuticals?

Group - B

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

5. Discuss the different feeding process followed in the IMC farming pond in India.

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6. Write note on feed additives used in fish feed formulation.
7. Describe the principles and scope of nutrigenomics in fish nutrition.
8. Discuss different factors of enhancing feed digestibility in fish.

Group - C

Answer any *one* question : 8×1=8

9. Discuss the principles of biofloc technology in respect to fish nutrition. Explain the role of HACCP in fish feed regulation. 4+4
10. Make a list of non-convention fish feed ingredients used in fish feed formulation. Explain least-cost best-buy technique with an example. Add a note on feed preservative. 3+3+2

Internal Assessment : 5 marks
