



PG (CBCS)
M.SC Semester- II Examination, 2023
FISHERIES SCIENCE
PAPER: FSC 203
(FISH DISEASES AND MANAGEMENT AND FISHERIES EXTENSION,
ECONOMICS AND MARKETING)

Full Marks: 40

Time: 2 Hours

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

Write the answer for each unit in separate sheet

UNIT: FSC 203.1
FISH DISEASES AND MANAGEMENT

GROUP-A

1. Answer any **TWO** from the following questions: 2×2=4
- Write the name of causative agent responsible for EUS and Cotton wool disease in fish.
 - What are the common prophylactic measures taken to prevent bacterial infection in aquaculture?
 - Name two Gram + bacterial and two Gram -Ve bacterial fish disease.
 - What is immunostimulant? Name two immunostimulant with their active component commercially used in aquaculture.

GROUP-B

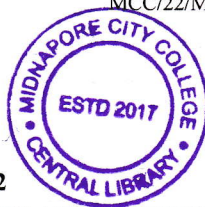
2. Answer any **TWO** from the following questions: 2×4=8
- What is fish louse? What are the common treatment measures taken during the invasion of fish louse in aquaculture?
 - Write a note on different diagnostic approaches of fish disease identification.
 - Illustrate briefly the pathogen, environment and host relationship in aquaculture with suitable diagram.
 - Discuss white faecal syndrome in shrimp.

GROUP-C

3. Answer any **ONE** from the following questions: 1×8=8
- Illustrate briefly the life cycle of *Saprolegnia sp.* and *Trichodina sp.* with suitable diagram. 4+4
 - Enlist common drugs used in aquaculture to prevent fish disease. Discuss best shrimp health management practices. 4+4

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(2)



UNIT: FSC 203.2

FISHERIES EXTENSION, ECONOMICS AND MARKETING**GROUP-A**

1. Answer any **TWO** from the following questions: 2×2=4
- State the moto of PMMSY.
 - State on demand and supply chain in Indian fisheries.
 - State the importance of FFDA in aquaculture.
 - What do you mean by an entrepreneur?

GROUP-B

2. Answer any **TWO** from the following questions: 2×4=8
- Discuss different fisheries extension methods.
 - Write down the different steps of project cycle.
 - State the role of MPEDA for fisheries products export from India.
 - Give an account on the women empowerment through fisheries activities in India.

GROUP-C

3. Answer any **ONE** from the following questions: 1×8=8
- Classify different fish market. How to determine the price of a commodity?
Write a note on the different problems facing for fish marketing in India. 3+2+3
 - How to study the socio-economic status of a fishers? Discuss on the fisheries education in India. 4+4
