

PG CBCS
M.Sc. Semester-I Examination, 2022
FISHERIES SCIENCE
PAPER: FSC 104



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

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.

UNIT – FSC 104.1

POLLUTION, ECO-TOXICOLOGY AND AQUATIC MICROBIOLOGY

GROUP-A

Answer any TWO questions from the following:

2×2= 4

1. Define Xenobiotics. Give four examples
2. What is microbial biofilms? State its function.
3. What is probiotics?
4. What do you mean immunogenotoxicity?

GROUP-B

Answer any TWO questions from the following:

2×4= 8

1. Discuss the toxicokinetics of Mercury in the aquatic environment.
2. State on LC₅₀ and LD₅₀.
3. Discuss the different types of media used in microbiology.
4. Write note on Chelation therapy.

GROUP-C

Answer any ONE question from the following:

1×8= 8

1. Write down the process of biotransformation. Discuss the different factors modify the toxicity of the pollutants. 5+3
2. What do you mean by biogeochemical cycle? Give an account of Nitrogen Cycle with special emphasis on microbes. 2+6

P.T.O.

(2)

UNIT – FSC 104.2**OCEANOGRAPHY, REMOTE SENSING & GIS AND DISASTER MANAGEMENT****GROUP-A****Answer any TWO questions from the following:****2×2= 4**

1. Define ocean current.
2. What is the full form XBT
3. What do you mean by reversing thermometer?
4. State about upwelling and downwelling?

**GROUP-B****Answer any TWO questions from the following:****2×4= 8**

1. What do you mean by progressive and standing wave?
2. Write down the four applications of remote sensing in fisheries.
3. Mention the zonation of the ocean.
4. State the importance of GPS in fisheries sectors

2+2**GROUP-C****Answer any ONE question from the following:****1×8= 8**

1. Discuss the disaster precautionary measures taken by aquaculture. Add a note on renewable energy resources in ocean
2. What is the main name behind ocean tide? What is the full form of NOAA and ABHRR in the field of oceanography? Difference between RS and GIS.

3+5**4+2+2**
