

M.Sc. 1st Semester Examination, 2024

FISHERIES SCIENCE

(Pollution, Ecotoxicology and Aquatic Microbiology)

PAPER — FSC-107

Full Marks : 25

Time : 1 hour

Answer **all** questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP—A

Answer any **two** questions from the following :

2 × 2

1. Define immunotoxicants.
2. State on synthetic bacteria culture media with examples.

3. What do you mean by pollution Indicator species ? Give example.
4. Write the chemical control of microbial growth.

GROUP – B

Answer any **two** questions from the following : 4 × 2

5. Discuss dry and wet sterilization techniques used in microbiology laboratory.
6. Write a note on microbial biofilm and its importance in aquatic environment.
7. Write the process of the biotransformation technique.
8. Discuss the toxicity bioassay technique.

GROUP – C

Answer any **one** question from the following :

8 × 1

9. Define toxicokinetics. Discuss the sources and impact of mercury in aquatic ecosystems. State the principle of chelation therapy. 2 + 4 + 2
10. Discuss the importance of probiotics in aquaculture. State the role of microbes in the biogeochemical cycle. 4 + 4

[Internal Assessment – 05 Marks]
