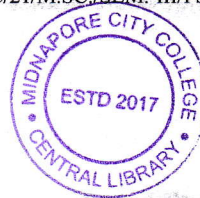


PG CBCS
M.Sc. Semester- III Examination, 2022
FISHERIES SCIENCE
PAPER: FSC 302



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

UNIT: FSC-302.1

GENETIC ENGINEERING AND BIOTECHNIQUES

F.M.: 20

GROUP-A

1. Answer any TWO from the following questions:

2×2=4

- a) What do you mean by genetic code?
- b) What is genome mapping?
- c) Write down the applications of transgenesis in fisheries field.
- d) What do you mean by recombinant vector vaccines

GROUP-B

2. Answer any TWO from the following questions:

2×4=8

- a) Write down the principles behind southern blotting.
- b) What are the basic principles of sedimentation?
- c) Write a note on electrophoretic velocity?
- d) Give an account of DNA finger printing.

GROUP-C

3. Answer any ONE from the following questions:

1×8=8

- a) What do you mean by ELISA? Mention the different types of ELISA used.
 Write down the application of ELISA techniques. (2+2+4)
- b) What do you mean by PCR? What are the steps involved on PCR technique?
 (2+6)

(P.T.O.)



UNIT: FSC-302.2
FISHERIES TECHNOLOGY AND HARBOUR ENGINEERING

F.M.: 20

GROUP-A

4. Answer any **TWO** of the following questions: **2×2=4**
- Write the name of two important traditional fishing crafts used in Odisha coast?
 - What is fishing trap? Mention the name of two fishing traps used in West Bengal.
 - What do you mean by FAD?
 - State the function of Net Sonde.

GROUP-B

5. Answer any **TWO** of the following questions: **2×4=8**
- What is artisanal fishery? What are the major characteristics of artisanal fisheries port?
 - Draw and label the diagram of a typical trawl net used in fishing operation.
 - Add a note on the fishing gear materials used in fishing gear construction.
 - Briefly explain the lifesaving appliances used in fishing vessel.

GROUP-C

6. Answer any **ONE** of the following questions: **1×8=8**
- What is fishing harbor? Discuss the different facilities required for construction of fishing harbor? **(3+5)**
 - Differentiate between active and passive fishing gears. Write down the hazards associated with fishing harbor management. **(2+4+2)**
