

Total pages: 02

PG CBCS
M.Sc. Semester-I Examination, 2022
FISHERIES SCIENCE
PAPER: FSC 103

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-103.1

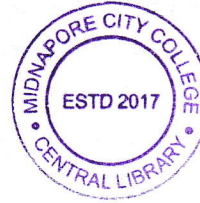
ANATOMY AND PHYSIOLOGY OF FIN FISH AND SHELL FISH

GROUP-A

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

2×2= 4

1. Why the fish heart is called the venous heart.
2. Write the arteries involved in prawn circulation.
3. State the function of fertilization membrane.
4. Write the functions of fish lymphocytes?



GROUP-B

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

2×4= 8

1. Narrate the blood and its course of circulation in *Macrobrachium rosenbergii*.
2. Briefly explain the structure and the function of hepatopancreas.
3. Discuss the structure of fish Lymphatic system in fishes.
4. Briefly describe the formation of sperm in fishes with diagram.

GROUP-C

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

1×8= 8

1. Briefly describe the digestive system of freshwater mussel with proper diagram. Add a note on the digestion and absorption process of any one shell fish. 5+3
2. What is endocrine gland of fish? Describe the structure of thyroid gland of the fishes. Add a note on the internal tissue and Corpuscles of Stannius. 2+3+5

P.T.O.

(2)

UNIT - FSC-103.2FISHERIES TECHNOLOGY AND HARBOUR ENGINEERINGGROUP-AAnswer any TWO questions from the following:

2×2= 4

1. Mention the names of two important traditional fishing crafts used in West Bengal coast?
2. What is wounding gear? Mention the name of two wounding gear used in traditional fishing.
3. What do you mean by Bycatch Reduction Device (BRD)?
4. What is ghost fishing?

GROUP-BAnswer any TWO questions from the following:

2×4= 8

1. What are Purse-Seiners? How many types of seiners used in marine sectors?
2+2
2. What do you mean by active fishing gears? Give examples.
2+2
3. What is artisanal fishery? What are the major characteristics of artisanal fisheries port?
2+2
4. Write a brief note on fishing harbor management in India?

GROUP-CAnswer any ONE question from the following:

1×8= 8

1. What is fishing craft? What types of materials used in fishing craft construction?
3+5
2. What is turtle excluder device? Give a brief account on turtle excluder device? Add a note on SONAR.
2+4+2
