

**CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN
NUVEM - GOA**

B. Sc. CBCS Semester V Examination, January 2021

Subject Code: ZOD-103 Fish and Fisheries Subject Name: Zoology

Total Marks: 60

Duration: 2 hrs

Total no. of pages: 2

Instructions: 1. All questions are compulsory.

2. Figures to the right indicate marks allotted to the question.

3. Illustrate your answers wherever necessary.

Q.1. Answer ANY FIVE of the following: (2x5)

- a) Describe the structure of a Ctenoid scale.
- b) With reference to fish gills, what is the counter-current exchange system?
- c) What is lacustrine fishery?
- d) State the scientific names of any two Indian major carps.
- e) What is meant by "Cage culture"?
- f) Mention two synthetic hormones used to induce fish spawning.
- g) What is a transgenic organism?

Q.2. Answer ANY FIVE of the following: (2x5)

- a) Differentiate between the two types of swim bladders found in fish.
- b) Describe the design of an Outrigger Canoe.
- c) How does the EEZ help the fishery industry?
- d) Which are the two edible oysters found in India?
- e) Mention any four methods of fish preservation.
- f) What is Composite Fish Culture?
- g) Explain the term Super Intensive Aquaculture.

Q. III. A) Give an account of the types of migration seen in fish. (5)

OR

A) Give a brief account of extensive aquaculture practices. (5)

B) Describe any three types of passive nets in marine fishery. (5)

Q. IV. A) Describe any three types of paired fin propulsion with relevant examples.(5)

OR

A) Explain any two Indian fisheries legislations. (5)

B) Describe the process of induced breeding in fish. (5)

Q.V. A) Discuss any two viral fish diseases. (5)

OR

A) Give a brief account of reproduction in fish. (5)

B) Discuss any four fish by-products. (5)

Q.VI. A) Describe the environmental factors that can affect fish catch. (5)

OR

A) Discuss the importance of Zebra fish in the field of research. (5)

B) Explain the importance of remote sensing in the fishery industry. (5)