2022

M.Sc.

4th Semester Examination FISHERIES SCIENCE

PAPER—FSC-402

Full Marks: 50

Time: 2 Hours

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.

Illustrate the answers wherever necessary.

UNIT-402.1

FISHERIES STATISTICS AND RESEARCH METHODOLOGY

1. Answer any two questions.

 2×2

(a) Distinguish between populations and samples.

(Turn Over)

- (b) What do you mean by applied and fundamental research?
- (c) What is hypothesis? Mention its importance.
- (d) What is frequency? State on frequency density.
- 2. Answer any two questions.

2×4

- (a) Discuss different steps and elements in research process.
- (b) Discuss different types of bar diagrams with proper example.
- (c) Calculate the Coefficient of correlation between Length (X) and Weight (Y) variables collected from Cirrhinus mrigala fish of a pond and comment on your result.

X (cm)	23	22	24	17	19	20	18	21
Y(g)	16	12	18	04	.03	10	05	12

(d) The mean weight (g) of a group of 100 Labeo rohita fish is 9.35 g. The mean weight of 25 of them was 8.75g and other 65 is 10.51g. What

is the mean weight of the remaining fish?

3. Answer any one question.

1×8

(a) Compare Mean Deviation and Standard Deviation. Compute the Standard Deviation from the following frequency distribution.

Length of fish (cm)	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
Number of fish	5	12	15	20	18	10	6	4

3+5

(b) Mention important characteristics of a good researcher. How to write a review of literature in your thesis? Differentiate between references and bibliography.

2+4+2

UNIT-402.2

FISHERIES LEGISLATION, COMPUTER AND BIOINFORMATICS

1. Answer any two questions.

2×2

- (a) Mention different central fisheries legislations of India.
- (b) Write a note on marine fisheries resources of India.
- (c) Write any two features of the computer.
- (d) What do you mean by volatile memory?
- 2. Answer any two questions.

2×4

- (a) Write a note on the regulation of fishing by foreign vessels.
- (b) Highlight the Indian Fisheries Act, 1897.
- (c) What do you mean by software? Explain with examples.
- (d) Discuss the principles and functions of the coastal Authority Act, 2005.

3. Answer any one question.

1×8

(a) Write short note on:

4×2

- i) Marine Fishing Regulation Act.
- ii) The Merchant Shipping Act, 1958

iii) Differentiate between secondary memory and primary memory.

- iv) Operating System.
- (b) Answer the following questions:

4+4

- i) Discuss about the model bill on Inland Fisheries and Aquaculture, 2005
- ii) Briefly write on different generations of computer with examples.

[Internal Assessment - 10 Marks]