

2023

M.Sc.

4th Semester Examination

FISHERIES SCIENCE

PAPER : FSC-402

Full Marks : 40

Time : 2 hours

The figures in the right-hand margin indicate marks.

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

Illustrate the answers wherever necessary.

*Answer from **all** the Units as directed.*

UNIT—I

**(FISHERIES STATISTICS AND
RESEARCH METHODOLOGY)**

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

(a) Classify different types of central tendency.

(2)

- (b) State the objective and purpose of research.
- (c) What are the differences between hypothesis and research results?
- (d) Define frequency and cumulative frequency.

2. Answer *any two* from the following questions :
4×2=8

- (a) Discuss different steps and elements in research process.
- (b) State the importance of diagrammatic representation of data.
- (c) Find the mean and SD of the composite set from the means and SD of its component sets as given in the following table :

	1st Set	2nd Set	3rd Set
Number of observations	200	250	300
Arithmetic mean	25	10	15
Standard Deviation	3	4	5

(3)

(d) The mean weight (g) of a group of 100 *Labeo rohita* fishes is 9.35 g. The mean weight of 25 of them is 8.75 g and other 65 is 10.51 g. What is the mean weight of remaining fishes?

3. Answer *any one* from the following questions :
1×8=8

(a) State the relation among AM, GM and HM. Find the missing frequencies of the following data. Given that AM= 67.45 g :

Weight of fish	60-62	63-65	66-68	69-71	72-74	Total
No. of fish	5	18	f_3	f_4	8	100

3+5=8

(b) Mention important characteristics of a good researcher. How to write a review of literature in your dissertation thesis? Differentiate between references and bibliography.
2+4+2=8

UNIT—II

(FISHERIES LEGISLATION, COMPUTER AND BIOINFORMATICS)

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

(a) Write a note on banned fishing season in Indian marine water.

- (b) Briefly discuss the Biological Diversity Act, 2002.
- (c) Name the components of a data communication system.
- (d) Write a note on the Merchant Shipping Act, 1958.

5. Answer *any two* from the following questions :
4×2=8

- (a) Briefly discuss the function of MPEDA Act, 1972.
- (b) Briefly discuss the Coastal Aquaculture Authority Act, 2005.
- (c) What do you mean by software? Explain with example.
- (d) Classify operating system depending upon the type of user interface.

6. Answer *any one* from the following questions :
8×1=8

- (a) Give an account on the Marine Fishing Regulation Act. What are the regulations for the territorial water imposed by the Govt. of West Bengal under this Act?

2+3+3=8

- (b) Discuss different categories of networks. Briefly write on different generations of computer.

4+4=8

