2017

M.Sc. 4th Semester Examination FISHERIES SCIENCE

PAPER-FSC-402

Full Marks: 40

Time: 2 Hours

The figures in the 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-I

(Fisheries Statistics and Research Methodology)

- 1. Answer any two questions from the following: 2×2
 - (a) What are specific features expected from a good researcher?
 - (b) How 'population' and 'sample' are defined from statistical point of view?
 - (c) Discuss about null hypothesis.
 - (d) Define Geometric mean with an example.

2. Answer any two questions from the following:

2×4

(a) Discuss about different types of bar-diagram with examples.

(b) Compute the standard deviation from the following frequency distribution pattern:

x	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
у	5	12	15	20	18	10	6	4

(c) Briefly narrate the scatter diagram.

(d) Give an idea about Chi-square test with suitable example.

3. Answer any one question from the following:

1×8

- (a) (i) What is your understanding about 'research'?
 - (ii) Classify different types of research. Mention the steps of research processes generally followed.
 - (iii) Add a note on importance of Statistics for surveybased research data validation.

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- (b) (i) Define relative and cumulative frequency distribution.
 - (ii) Find out the missing frequencies in the following frequency distribution, when AM = 11.09 and total frequency = 60:

Class limit	9:3-9.7	9.8-10.2	10.3-10.7	10.8-11.2	11.3-11.7
Frequency	2	5	\mathfrak{l}_3	f ₄	14
Class limit	11.8-12.2	12.3-12.7	12.8-13.2		
Frequency	6	3	1	No.	

3+5

Unit-II

(Fisheries Legislation, Computer Application in Fisheries)

- **4.** Answer any *two* questions from the following: 2×2
 - (a) Write a short note on the Maritime Zones of India Act, 1981.
 - (b) State the name of various functional units of computer hardware.
 - (c) Write a short note on 'Exclusive Economic Zone' of India.
 - (d) Write down the main logical units of CPU.

- 5. Answer any two questions from the following: 2×4
 - (a) Briefly discuss the code of conduct for Responsible Fisheries.
 - (b) Write a note on MPEDA Act, 1972.
 - (c) What is operating system of a computer ? Write different functions of operating system. 2+2
 - (d) Write a note on different storage device used in computer.
- 6. Answer any one question of the following: 1×8
 - (a) (i) Give an account of the Marine Fishing Regulation Act.
 - (ii) What are the regulations for the territorial water imposed by the Govt. of West Bengal?
 - (iii) Write a note on closed fishing season in Indian Marine Water. 3+3+2
 - (b) Answer all of the following questions:
 - (i) What is application software? Give example.
 - (ii) Write short note on LAN.
 - (iii) Classify operating system depending upon the type of user interface.
 - (iv) Briefly discuss on Coastal Aquaculture Authority Act, 2005. 2+2+2+2