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PG/4th Sem/FSC/19

2019

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.*

Unit - I

(Fisheries Statistics and Research Methodology)

1. Answer briefly any *two* questions from the following :

2×2=4

(a) Define frequency and cumulative frequency.

(b) Show that if \bar{x} is the arithmetic mean of the

quantities x_1, x_2, \dots, x_n then $\sum_1^n (x_i - \bar{x}) = 0$.

[Turn Over]

(c) State the importance of review of literature in research.

(d) What is coefficient of variation ?

2. Answer any *two* questions from the following :

2×4=8

(a) Discuss about different bar diagram and their uses.

(b) Find out the correlation co-efficient from the following data :

x	65	66	67	67	68	69	70	72
y	67	68	65	68	72	72	69	71

(c) State about different classification of research.

(d) Write down quantitative and qualitative research.

3. Answer any *one* question from the following :

1×8=8

(a) (i) Define research.

(ii) How to write the references for your dissertation work ?

(iii) Calculate the SD for the following data.

x	5	15	25	35	45	55	65	75
y	3	7	9	23	15	8	6	4

2+3+3

- (b) (i) Give an idea about Geometric mean.
- (ii) Find out the missing frequencies of the following data, given that AM is 67.45 gram.

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

- (iii) State about different steps of research process. 2+4+2

Unit - II

(Fisheries Legislation, Computer and Bioinformatics)

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

- (a) What is the job of control unit and ALU ?
- (b) List down different types of printers.
- (c) Write a short note on the Maritime Zones of India Act 1981.
- (d) Write a short note on EEZ of India.

[Turn Over]

5. Answer any *two* of the following : 2×4=8
- (a) Briefly discuss the Code of Conduct for Responsible Fisheries (CCRF).
 - (b) Write a note of Marine Fisheries resources of India.
 - (c) State the features of first and last generation of computers.
 - (d) Briefly explain the characteristics of Computer.
6. Answer any *one* of the following : 1×8=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 under this Act ?
 - (iii) Write a note on closed fishing season imposed in Marine Water of India. 3+3+2
 - (b) (i) Briefly discuss on Coastal Aquaculture Authority Act 2005.
 - (ii) Draw a general block diagram of computer and discuss its components. 4+4
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