M.Sc.

2016

4th Semester Examination

FISHERIES SCIENCE

PAPER-F8C-402

Full Marks: 40

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—I

(Fisheries Statistics and Research Methodology)

- 1. Answer any two questions from the following : 2×2
 - (a) Mention advantages and disadvantages of arithmatic mean.
 - (b) What is meant by primary and secondary data? Mention with example.

- (c) What do you mean by 'Mode'— Give examples?
- (d) Define 'Standard deviation' with example.
- 2. Answer any two questions from the following : 2×4
 - (a) Prove that $AM \ge GM \ge HM$
 - (b) Find out the median from the following frequency distribution.

Class boundaries	15-25	25-35	35-45	45-55	55-65	65-75
Frequency	4	11	19	14	0	2

- (c) Explain different Bar diagram with example.
- (d) Find out the Correlation Co-efficient from the following data collected from fish sample.

Length (CM)	65	63	67	64	68	62	70	66
Weight (g)	68	66	68	65	69	66	68	65

3. Answer any one questions of the following : 1×8

(a) (i) If $y_i = \frac{x_1 - c}{d}$ (i = 1, 2,.....n) where 'c' and 'd' are

constants prove that $\overline{\mathbf{x}} = \mathbf{c} + \mathbf{d}\overline{\mathbf{y}}$

(ii) Find out the missing frequencies of the following

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(Continued)

data, given that AM = 67.45

Length of fish (cm)	60-62	63-65	66-68	69-71	72-74	Total
No. of fish	5	18	f ₃	f ₄	. 8	100

(b) (i) State the meaning of research.

- (ii) Mention the essential characteristics of a researcher.
- (iii) Classify different important aspects of research.
- (iv) Prepare an experimental design with respect to

aquaculture research.

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Unit—II

(Fisheries Legislation, Comuter Application in Fisheries)

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

- (a) Mention different central fisheries Legislation of India.
- (b) Write a note on Marine fisheries resources of India.
- (c) Enlist different storage device used in computer.
- (d) Name the components of a data Communication system.

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(Turn Over)

5.	Answe	any two questions from the following :	2×4					
	(a) Wr	ite a note on the Merchant Shipping Act,	1958.					
	(b) Hig	ghlight the Indian Fisheries Act, 1897.						
		aat do you mean by software? Explair amples.	ı with					
	(d) Dis	scuss different categories of Network.						
6.	Answe	r any one questions of the following :	1×8					
	(a) Write short note on the following :							
	(i)	Marine Fishing Regulation Act.						
	(ii)	Major objective of MPEDA.						
	(iii)	Charecteristics of RAM.						
	(iv)	Bit and Byte. 2+	2+2+2					
	(b) (i)	Discuss about the model bill on Inland Fig and Aquaculture, 2005.	sheri es					
	(ii)	Briefly write on different generations of con	iputer.					

4+4

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