



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 4th Semester Examination, 2022

IFFACOR08T-INDUSTRIAL FISH AND FISHERIES (CC8)

BIostatistics AND COMPUTER APPLICATION

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.*

GROUP-A
(BIostatistics)

1. Answer any **three** questions from the following: 2×3 = 6
 - (a) Distinguish between primary data and secondary data.
 - (b) What is a histogram?
 - (c) When do you prefer median over mean as a measure of central tendency?
 - (d) Discuss one measure of dispersion.
 - (e) What is biological sampling? What is its use?

2. Write short note on any **one** of the following: 4×1 = 4
 - (a) Normal Distribution
 - (b) Chi-square test.

3. Answer any **two** questions from the following: 5×2 = 10
 - (a) What is t-test? What is the rejection region for both side test? Mention one use of t-test. 2+2+1
 - (b) Write an account of application of Linear regression in fisheries with relevant example. 5
 - (c) What is pie-diagram? Mention its application with suitable example from fish population. 1+4
 - (d) Describe the graphical representation for discrete data and one for continuous variable. 2½ + 2½

GROUP-B
(COMPUTER APPLICATION)

4. Answer any **three** questions from the following: 2×3 = 6
 - (a) What is the need for secondary memory in a computer? Give an example of secondary memory.
 - (b) Mention and briefly explain any two types of 'view' in the presentation software.

- (c) Write down the shortcut key combinations used for navigating in a worksheet for the following:
 - (i) One cell right
 - (ii) End of the column
- (d) Write down two types of page orientations in page set up used in word processor.
- (e) Why is the operating system (OS) important for a computer? Give an example of OS.

5. Answer any **one** question from the following: 4×1 = 4

- (a) Discuss the important difference between RAM (Random Access Memory) and ROM (Read Only Memory) of a computer.
- (b) What do you mean by word processor software, spreadsheet software, presentation software and database management software as different types of office application softwares?

6. Answer any **two** questions from the following: 5×2 = 10

- (a) Write down the names of different components of the central processing unit (CPU) of a computer. Briefly discuss about the functionality of each component of CPU. 2+3
- (b) What is meant by computer programming? Briefly compare among the different types of computer programming languages (Machine, assembly and high level languages). 2+3
- (c) Answer the following questions from spreadsheet: 1+2+2
 - (i) Write down the row and column number of the cell 'D7'.
 - (ii) A reference to a range of cells is given in the form of (B2:E9). How many rows, columns and total number of cells are there in the given range?
 - (iii) Write down suitable formulas for calculating summation and average values for the above range of cells.
- (d) Write down names of any two commonly available DBMS softwares. What is the use of Query in DBMS? Write down the main difference between ALTER and UPDATE commands in SQL. 2+1+2

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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