



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 4th Semester Examination, 2020

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.
All symbols are of usual significance.*

Separate Answer scripts to be provided for each group

GROUP-A

(BIostatistics)

1. Answer any **three** questions from the following: 2×3 = 6
 - (a) Describe one measure of dispersion.
 - (b) Distinguish between Attribute and Variable.
 - (c) Define Arithmetic mean.
 - (d) Among the different methods of Deviation measurement, which one is the best and why?
 - (e) What is Histogram?

2. Write short note on any **one** from the following: 4×1 = 4
 - (a) Pie chart (b) Standard Deviation.

3. Answer any **two** questions from the following: 5×2 = 10
 - (a) How do you fit a linear regression equation of weight on length of fishes when you have 20 pairs of observations on weight and length of 20 fishes? 5
 - (b) Following are the length of fishes captured in a haul. Calculate the Standard Deviation. 5
30cm, 22cm, 34cm, 35cm, 37cm, 38cm, 41cm, 43cm, 44cm, 46cm.
 - (c) Differentiate Median from Mode. Calculate Median and Mode of the data set given below. 5
500gm, 450gm, 300gm, 470gm, 530gm, 420gm, 260gm, 320gm, 510gm, 620gm, 580gm, 420gm, 270gm, 260gm, 425gm, 470gm, 530gm, 603gm, 515gm, 230gm.
 - (d) Describe t-test with example. 5

GROUP-B
(COMPUTER APPLICATION)

4. Answer any *three* questions from the following: 2×3 = 6
- (a) Mention the shortcut key combinations used for navigating
- (i) to the top of the Worksheet (cell A1)
- (ii) to the end of a column.
- (b) What are the different types of languages that are available in the DBMS?
- (c) What do you mean by pre-emptive scheduling?
- (d) What is the use of DROP command and what are the differences between DROP and DELETE commands?
- (e) What do you mean by attribute of an entity? Give a suitable example of single-valued attribute and multi-valued attribute of an entity.
5. Answer any *one* question: 4×1 = 4
- (a) How are charts useful in Excel? Compare any two chart types available in Excel. 2+2
- (b) Briefly discuss the important features of a word processing software. 4
6. Answer any *two* questions from the following: 5×2 = 10
- (a) Convert the following decimal number into binary number: 256. 2+3
- State and briefly discuss any three major functions of an Operating System (OS) of a computer.
- (b) Write formulas for the operations (i) – (v) based on the spreadsheet given below 5
along with the relevant cell address:

	A	B	C	D	E	F	G
1	Roll no.	Name	Bengali	English	Mathematics	Total	Average
2	1	Abir	70	80	87		
3	2	Priya	90	95	89		
4	3	Ratnesh	89	91	95		
5	4	Rinku	60	75	79		
6	5	Rohan	50	30	67		
7	Highest Marks						
8	Student Failed						
9	Total Appeared						

(Draw the spreadsheet in your answer script and answer accordingly)

- (i) To calculate the Total Marks as sum of Bengali, English and Mathematics for each student and display them in column F.
- (ii) To calculate the average marks for each student and display them in column G.
- (iii) To calculate the highest marks in Mathematics and display it in cell E7.

- (iv) To find the name of the student who failed in English and display it in cell D8 provided 35 as the qualifying mark.
- (v) To calculate the total number of students appearing for Bengali and display it in cell C9.
- (c) Why database management system is preferred over traditional file based system? 5
- (d) State two major functions of Central Processing Unit (CPU) of a computer. What do you mean by machine language, assembly language and high level language for different types of computer programming languages? 2+3

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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