



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 6th Semester Examination, 2021

FNTACOR14T-FOOD AND NUTRITION (CC14)

RESEARCH METHODOLOGY AND BIOSTATISTICS

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.*

Answer any *four* questions from the following

10×4 = 40

1. Explain any *five* of the following terms with suitable examples:

2×5 = 10

- (a) Variable
- (b) Parameter
- (c) Statistics
- (d) Frequency distribution
- (e) Cumulative frequency
- (f) Mode.

2. What do you mean by interpretation? Explain its importance. Write a brief account on techniques of interpretation.

2+4+4

3. Write short notes on any two techniques of graphical representation of data.

5+5

4. Compute the arithmetic mean and median for the sample of birth weights (g) of live-born infants born at a private hospital.

5+5

3265, 3260, 3245, 3484, 4146, 3323, 3649, 3200, 3031, 2069, 2581, 2841, 3609, 2838, 3541, 2759, 3248, 3314, 3101, 2834.

5. What are the different steps that you should follow while preparing a report? Briefly explain the significance of report writing.

5+5

6. Compute the standard deviation of two samples of cholesterol measurements on a given person using the Autoanalyzer and Microenzymatic measurement methods. Comment on your result.

4+4+2

Autoanalyzer method (mg/dL): 177, 193, 195, 209, 226

Microenzymatic method (mg/dL): 192, 197, 200, 202, 209

7. What do you mean by variance and standard deviation? Briefly explain about the properties of standard deviation. What is frequency polygon? 2+2+4+2
8. Differentiate between the following: 5+5
- (a) Qualitative and Quantitative data
- (b) Histogram and Column diagram.
9. Present the data in a frequency distribution table with tally marking. Calculate the cumulative frequency. Draw a histogram based on the data set. 3+2+5

Body weight (kg)	51-53	54-56	57-59	60-62	63-65	66-68	69-71
Frequencies	4	7	12	25	13	6	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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