

2022  
B. Voc. (Retail Management)  
Fifth Semester  
GEN - 501: Critical Thinking and Elementary Statistics  
(Common)

Time allowed: 3 Hours

Max. Marks: 80

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

X-X-X

1. Attempt any four from the following

- Define Classification of data?
- Define Rounding of data.
- Define Mode? Discuss the merits and demerits of mode.
- What is coefficient of variation?
- Define dispersion. State the absolute and relative measure of dispersion.
- Write any four problems in the construction of Index Number? (4\*4=16)

**Unit – I**

- What are the various methods of collecting primary data? Explain the merits and demerits of any one of them? (16)
- What is meant by classification of data? Discuss the different methods of classification in data. (16)

**Unit - II**

- What is Frequency Distribution? What are the main points underlying the construction of a frequency distribution? (16)
- Calculate Mean and Median from the following data.

Wages	0-10	10-20	20-30	30-40	40-50
No. Of workers	22	38	46	35	19

(16)

P.T.O.

**Unit – III**

6. Batsman X and Y scored following runs in different innings they played in a test series. Which of the two is a better scorer? Who is consistent batsman?

X:	12	115	6	73	7	19	119	36	84	29
Y:	47	12	76	42	4	51	37	48	13	0

(16)

7. What do you mean by time series analysis? Discuss its components. (16)

**Unit – IV**

8. Explain the meaning, uses and methods of construction of Index Numbers? (16)
9. Calculate Fisher's Ideal Index Number from the following data and show that it satisfies Time Reversal Test.

Commodity	Price		Quantity	
	1977	1978	1977	1978
A	3	4	20	18
B	4	5	25	20
C	2	2	10	12
D	8	10	12	10
E	20	25	40	40

(16)