

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9 Sub. Code :

4	6	2	9	1
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Exam. Code :

1	3	0	5
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**B.Voc. (Retail Management) 5th Semester
(2124)**

CRITICAL THINKING AND ELEMENTARY STATISTICS

(Common for all B.Voc.)

Paper : GEN-501

Time Allowed : Three Hours]

[Maximum Marks : 80

Note :— Attempt **FIVE** questions in all, including Question No. 1 (which is compulsory) and selecting **ONE** question from each Unit.

1. Attempt any **four** from the following :

- (a) Define Statistics in singular and plural sense.
- (b) Rounding of data.
- (c) What do you mean by the measure of central tendency ? State its purpose.
- (d) Explain briefly components of Time Series.
- (e) What is meant by Mean Deviation ? What are the various formulae to calculate Mean Deviation ?
- (f) What are the various types of Index Number ?

4×4=16

UNIT—I

2. How primary data is collected through Direct Personal Investigation and Local correspondents ? Discuss their merits and demerits.

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3. What are the various types of Statistical diagrams ? Discuss in detail.

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UNIT—II

4. How is a frequency polygon different from a frequency curve ? Draw the two diagrams taking an imaginary set of data.

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5. Calculate Mode from the following :

Size	4-8	8-12	12-16	16-20	20-24	24-28	28-32	32-36	36-40
Frequency	10	12	16	14	10	8	10	5	4

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UNIT—III

6. Calculate coefficient of variation of the following data :

X (More than)	0	10	20	30	40	50	60	70	80
No. of Students	150	140	100	80	80	70	30	14	0

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7. Fit a straight line trend by the method of least squares. Estimate the value for the years 1997 and 1999.

Year	1990	1991	1992	1993	1994	1995	1996
Production	125	128	133	135	140	141	143

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UNIT—IV

8. What is meant by Index number ? Point out its utility. What points should be taken into consideration in the construction of Index Number ?

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9. Calculate Fisher's Ideal Index Number from the following data and show that it satisfies Time Reversal Test.

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
A	6	50	10	56
B	2	100	2	120
C	4	60	6	60
D	10	30	12	24
E	8	40	12	36

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