

2021
B. Voc. (Retail Management)
Fifth Semester
GEN – 501: Critical Thinking and Elementary Statistics

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.

$x-x-x$

I. Attempt any four from the following:-

- a) Define Statistics.
- b) What is standard deviation?
- c) Merits of Mean
- d) Uses of Index Number
- e) Characteristics of Mode
- f) What is statistical data? (4x5)

UNIT – I

- II. Discuss in detail the meaning and types of statistical data. (15)
- III. How do you collect, classify and present the data? Discuss. (15)

UNIT – II

IV. Find the mean of following distribution:

Age in years	12	10	15	14	8
No. of boys	5	3	2	6	4

(15)

V. The runs scored in a cricket match by 11 players is as follows:-

7, 16, 121, 51, 101, 81, 1, 16, 9, 11, 16

Find the mean , median and mode. (15)

UNIT – III

- VI. What are the various components of time series? Also state different models of time series. (15)

P.T.O.

(2)

VII. Given the statistical distribution of the table. Calculate the standard deviation:

X	61	64	67	70	73
Y	5	18	42	27	8

(15)

UNIT – IV

VIII. What are types, uses and meaning of index numbers?

(15)

IX. Calculate index number using Fisher's ideal index numbers:

Items	P_0	Q_0	P_1	Q_1
A	4	20	10	15
B	8	4	16	5
C	2	10	4	12
D	10	5	20	6

(15)

x-x-x