

Exam.Code:1305

Sub. Code: 9521

1128

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. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Attempt any four questions from the following:-

- What is the difference between median and mode?
- Define classification of data with the help of suitable example
- What is the difference between Standard deviation and variance?
- What is the procedure for fitting a straight line?
- Define dispersion. Discuss its two measures.
- Define simple aggregative method of price index.

(4x4)

**UNIT - I**

II. Explain statistics, its characteristics and importance in various sectors. (16)

III. Differentiate between primary and secondary data and discuss the various methods of collecting the primary and secondary data. (16)

**UNIT - II**

IV. Explain different measures of central tendency? Which is the most suitable measure and why? (16)

V. a) The mean age of a combined group of men and women is 30 years. If the mean age of the group of men is 32 and that of women group is 27. Find out the percentage of men and women in the group.

b) A rupee spent on "Khadi" is distributed as follows :

Expenditure	Rupees
Farmer	20
Spinner	35
Weaver	25
Washer man	10
Administrative Agency	10
<b>Total</b>	<b>100</b>

Present the data in the form of a pie-diagram.

(16)

P.T.O.

(2)

**UNIT - III**

VI. What do you mean by time series analysis? Discuss its various components and uses. (16)

VII. Find the range and standard deviation from the following data:

X	10	20	30	40	50	60	70
No. of students	7	9	13	17	11	8	6

(16)

**UNIT - IV**

VIII. What do you mean by Index Number? Discuss its types and uses. (16)

IX. The following are the prices of commodities in 2017 & 2018. Construct a price index by taking 2017 as base year:

- Simple aggregative price index
- Index of average of price relatives

Commodity	A	B	C	D	E
Price in 2017	50	40	80	110	20
Price in 2018	70	60	90	120	20

(16)

$$x - x - x$$