



III Semester (CBCS) Degree Examination, March/April - 2022

COMMERCE

Quantitative Techniques - I (General)

Time : 3 Hours

Maximum Marks : 70

SECTION - A

Answer any five questions from the following :

5x2=10

1. What is Classification ?
2. Give the meaning of standard deviation.
- ~~3.~~ Define Statistics.
- ~~4.~~ What is Skewness ?
- ~~5.~~ What is Frequency Polygon ?
6. Define Harmonic mean.
7. Mention four types of diagrams.

SECTION - B

Answer any three of the following :

3x5=15

- ~~8.~~ Distinguish between primary data and secondary data.
- ~~9.~~ The following data represent the monthly expenditure of a family on various items. Represent the data by means of Pie-diagram.

Items	Expenditure (Rs.)
Food	2,500
Clothing	2,000
House Rent	1,000
Fuel and lighting	500
Miscellaneous	2,000



P.T.O.

10. Tabulate the data given below.

Town A : Females were 40%, coffee drinkers were 46% and male non-coffee drinkers were 20%.

Town B : Males were 55%, male non-coffee drinkers were 30% and female coffee drinkers were 15%.

11. Find the missing frequency from the following data when mean (\bar{x}) is 34.

Marks	No. of Students
0-10	5
10-20	19
20-30	20
30-40	-
40-50	20
50-60	10

12. From the following calculate the Quartile Deviation (QD) and co-efficient of quartile deviation.

Age (in years)	No. of Members
20	10
30	130
40	112
50	90
60	85
70	50
80	25



SECTION - C

Answer any three of the following :

3x15=45

13. Explain the significance, features and limitations of statistics.

14. Calculate mean, median and mode for the following data.

Class	Frequency
0-10	10
10-20	20
20-30	35
30-40	40
40-50	25
50-60	25
60-70	15

15. Draw histogram and hence find mode for the following distribution.

Income	Workers
0-10	05
10-20	08
20-30	10
30-40	14
40-50	11
50-60	06
60-70	03



16. Calculate coefficient of Skewness based on Bowley's formula from the following :

Marks	Frequency
10-19	7
20-29	15
30-39	18
40-49	25
50-59	30
60-69	20
70-79	16
80-89	7
90-99	2

17. Calculate Standard Deviation (SD) and co-efficient of variation from the following data.

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	8	12	17	14	12	4	4

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