



MS – 424

II Semester B.Com. Examination, May 2016
(CBCS) (Freshers + Repeaters) (2014-15 and Onwards)

COMMERCE

Paper – 2.6 : Quantitative Analysis for Business Decisions – I

Time : 3 Hours

Max. Marks : 70

Instruction: Answer should be written either completely in **English** or **Kannada**.

SECTION – A

Answer any five sub-questions. Each sub-question carries two marks. (5×2=10)

1. a) What is Tabulation ?
- b) Mention any four types of statistical averages.
- c) List any four methods of studying variation.
- d) Mention two methods of measuring Consumer Price Index.
- e) What is meant by skewness ?
- f) If $\bar{X} = 12$, $Z = 13$ find Median.
- g) Mention any two functions of statistics.

SECTION – B

Answer any three of the following. Each question carries six marks. (3×6=18)

2. Calculate Median from the following data:

Marks :	50	40	30	20	10
Frequency :	10	40	20	12	16

3. Which company has greater variability of salary ?

	Company 'X'	Company 'Y'
No. of employees :	250	200
Standard Deviation :	500	600
Average monthly salary (₹) :	20,000	25,000

4. a) Find \bar{X} if CV = 40%, S.D. = 12.
- b) Find Co-efficient of Mean Deviation, if $\bar{X} = 120$ and M.D. = 12.

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5. From the following data compute Quartile Deviation (QD) and its co-efficient.

Marks : 10-20 20-30 30-40 40-50 50-60

No of students : 15 18 20 9 6

6. Calculate SD from the following :

Size : 25 35 45 55 65 75

Frequency : 28 38 50 45 40 20

SECTION - C

Answer any three questions. Each question carries fourteen marks. (3×14=42)

7. From the following compute coefficient of skewness.

Weekly wages : 40-60 60-80 80-100 100-120 120-140 140-160 160-180

No. of Workers : 6 10 18 30 15 12 7

8. Following are the marks obtained by two students Suraj and Dheeraj in ten tests of 100 marks each :

Tests 1 2 3 4 5 6 7 8 9 10

Marks Suraj 40 80 76 48 52 72 68 56 60 56

obtained by Dheeraj 48 75 54 60 63 69 72 51 72 60

Find who is the better scorer and if consistency is the criterion for awarding prize who should get the prize ?

9. Calculate Mode and Median from the following data.

x : 0-10 10-20 20-30 30-50 50-70 70-100

f : 5 10 17 40 62 60

10. Compute Fisher's Ideal Index from the following and show how it satisfies TRT and FRT.

Commodities	2012		2013	
	Price	Quantity	Price	Quantity
M	8	80	10	110
N	10	90	12	108
O	16	256	20	340
P	20	420	24	456
Q	25	550	32	704

11. Draw less than and more than ogives for the following data.

Salary : 0-40 40-80 80-120 120-160 160-200 200-240 240-280

No. of employees : 9 36 91 147 87 22 8

Also locate the value of median and verify the answer.