

**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 :

<b>Marks :</b>	50	40	30	20	10
<b>Frequency :</b>	10	40	20	12	16

3. Which company has greater variability of salary ?

	<b>Company 'X'</b>	<b>Company 'Y'</b>
<b>No. of employees :</b>	250	200
<b>Standard Deviation :</b>	500	600
<b>Average monthly salary (₹) :</b>	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.

P.T.O.



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

<b>Marks :</b>	10-20	20-30	30-40	40-50	50-60
<b>No of students :</b>	15	18	20	9	6

6. Calculate SD from the following :

<b>Size :</b>	25	35	45	55	65	75
<b>Frequency :</b>	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.

<b>Weekly wages :</b>	40-60	60-80	80-100	100-120	120-140	140-160	160-180
<b>No. of Workers :</b>	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 :

<b>Tests</b>		1	2	3	4	5	6	7	8	9	10
<b>Marks</b>	Suraj	40	80	76	48	52	72	68	56	60	56
<b>obtained by</b>	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.

<b>x :</b>	0-10	10-20	20-30	30-50	50-70	70-100
<b>f :</b>	5	10	17	40	62	60

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

<b>Commodities</b>	<b>2012</b>		<b>2013</b>	
	<b>Price</b>	<b>Quantity</b>	<b>Price</b>	<b>Quantity</b>
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.

<b>Salary :</b>	0-40	40-80	80-120	120-160	160-200	200-240	240-280
<b>No. of employees :</b>	9	36	91	147	87	22	8

Also locate the value of median and verify the answer.