SE – 246

Second Semester B.Com. Degree Examination, September 2020
Paper – 2.6 : QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS – I
(CBCS) (Fresh + Repeaters) (2014-15 & Onwards)

Time : 3 Hours

Max. Marks : 70

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

SECTION – A

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

1. a) Define statistics as per Prof. Horace Secrist.

   b) Find the value of median when $\bar{X} = 24.6$, Mode(z) = 26.1.

   c) What is a histogram ?

   d) If variance = 64, Ex = 250, N = 10 find CV.

   e) Why Fisher's formula of Index number is called ideal ?

   f) What is base year ?

   g) Define tabulation.

SECTION – B

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

2. In a sample study about the traders in two towns. The following information was observed.

   Town X = 60% male
             30% traders
             25% male traders

   Town Y = 50% male
             35% traders
             28% male traders

   Present the above data in a tabular form.

3. Find range and co-efficient of range.

C.I. :	10-12	12-14	14-16	16-18	18-20
F :	3	4	9	16	2

P.T.O.

4. Compute the median of the following data.

X more than :	10	20	30	40	50	60	70	80
Frequencies :	115	103	88	68	43	23	13	3

5. Compute mean deviation and co-efficient of mean deviation from the mean.

| X : | 68 | 49 | 32 | 21 | 54 | 38 | 59 | 66 | 41 |

6. The mean and standard deviation of two brands of bulbs are given below.

Brand	X	Y
Mean life	2000 hrs	1640 hrs
Standard deviation	200 hrs	130 hrs

Which category of bulbs has more consistency in its life ?

SECTION – C

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

7. Draw a histogram from the following data and locate mode graphically.

C.I. :	100-104	105-109	110-114	115-119	120-124
F :	12	9	15	8	4

8. Calculate arithmetic mean and mode of the following data.

Wages (₹) : Less than	10	20	30	40	50	60	70	80
F :	5	13	20	32	60	80	90	100

9. Determine the Fisher's ideal index and show how it satisfies the TRT and FRT.

	2018		2019	
Commodities	Price	Quantity	Price	Quantity
A	21	15	20	17
B	70	10	75	12
C	60	14	62	15
D	32	10	30	10
E	36	12	38	8

10. Compute Karl Pearson's co-efficient of skewness from the following data :

Marks :	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of Students :	4	10	21	32	15	13	5	7	3

11. Compute quartile deviation and its co-efficient from the following data :

X :	10-12	12-14	14-16	16-18	18-20	20-22
F :	4	14	26	31	25	19