6 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

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 $\overline{X} = 24.6$, 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

Max. Marks: 70

SE - 246

- -2-4. Compute the median of the following data. 70 80 60 40 50 30 10 20 X more than : 13 3 23 88 68 43 115 103 Frequencies : 5. Compute mean deviation and co-efficient of mean deviation from the mean. 66 41 38 59 54 X : 68 49 32 21 6. The mean and standard deviation of two brands of bulbs are given below. Y Brand X Mean life 1640 hrs 2000 hrs Standard deviation 200 hrs 130 hrs Which category of bulbs has more consistency in its life ? SECTION - C $(3 \times 14 = 42)$ Answer any three questions. Each question carries fourteen marks. 7. Draw a histogram from the following data and locate mode graphically. 115-119 120-124 **C.I.** : 100-104 105-109 110-114 4 8 9 15 F 12 • 8. Calculate arithmetic mean and mode of the following data. 80 60 70 40 50 20 30 Wages (₹) : 10 Less than 90 100 5 13 20 32 60 80 F 9. Determine the Fisher's ideal index and show how it satisfies the TRT and FRT. 2019 2018 Price Price Quantity Quantity Commodities 20 17 21 15 A 10 75 12 В 70 14 62 60 15 С 10 30 10 D 32 12 38 E 36 8 10. Compute Karl Pearson's co-efficient of skewness from the following data : 30-40 40-50 50-60 60-70 70-80 80-90 10-20 20-30 0-10 Marks : No. of 21 4 10 32 15 Students : 13 5 7 3 11. Compute quartile deviation and its co-efficient from the following data :
 - : 10-12 12-14 14-16 18-20 20-22 16-18 X
 - F 31 • 4 14 26 25 19