Roll No. | | | | | | | | | | | | **Total No. of Pages :02**

Total No. of Questions : 09

B.Com.(Hons) (2018 Batch) (Sem.–2)

BUSINESS STATISTICS

Subject Code : BCOM-GE-201-18

M.Code : 75830

Date of Examination : 20-12-22

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B consists of FOUR Sub-sections : Units-I, II, III & IV.**
3. **Each Sub-section contains TWO questions each, carrying TEN marks each.**
4. **Student has to attempt any ONE question from each Sub-section.**

SECTION-A

1. Write briefly :

a) Define Secondary data.

b) Define Systematic sampling.

c) Define Convenience sampling.

d) Define Geometric mean.

e) Define Deciles.

f) Define Variance.

g) Define Partial correlation.

h) State the principle of least square.

i) State Bayes's theorem.

j) Define Poisson distribution.

SECTION-B

UNIT-I

2. Represent by means of histogram:

Wages	10-15	15-20	20-25	25-30	30-40	40-60	60-80
workers	7	19	27	15	12	12	8

3. Distinguish between Primary and Secondary data. Discuss the various methods of collecting primary data.

UNIT-II

4. Find the median of the following data:

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students	12	18	27	20	17	6

5. Calculate the Standard deviation:

X	50	60	70	80	90	100	110	120
F	14	40	54	46	26	12	6	2

UNIT-III

6. From the following data, obtain the two regression equations:

X	1	2	3	4	5	6	7	8	9
Y	9	8	10	12	11	13	14	16	15

7. Explain the meaning and significance of the concept of correlation. How will you calculate it from statistical point of view?

UNIT-IV

8. Define random experiment and trial. Find the probability that in the random arrangement of the letters of the word 'MATHEMATICS' in which all the vowels come together.

9. Define Normal distribution and give the salient features of normal distribution. Write its probability function.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.