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

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

Q1. **Write briefly :**

 a. What is data?

 b. What is randomness?

 c. What is sample?

 d. What is mode?

 e. What is quartile deviation?

 f. What is Variance?

 g. What is rank correlation?

 h. What is regression coefficient?

 i. What is probability?

 j. What is binomial distribution?

SECTION-B
UNIT-I

Q2. What is meant by business statistics? Discuss the importance and applications of business statistics in present competitive scenario.

Q3. Write notes on:

 a. Advantages and limitations of stratified sampling.

 b. Difference between descriptive and inferential statistics.

UNIT-II

Q4. The annual salaries of a group of employees are given in the following table:

Salaries (in Rs. 000)	45	50	55	60	65	70	75	80
Number of persons	3	5	8	7	9	7	4	7

Calculate the standard deviation of the salaries.

Q5. Write notes on:

a. Merits and limitations of harmonic mean.

b. Properties of Standard deviation.

UNIT-III

Q6. Calculate Karl Pearson's coefficient of correlation from the following data:

Y \ X	200-300	300-400	400-500	500-600	600-700
10-15	-	-	-	3	7
15-20	-	4	9	4	3
20-25	7	6	12	5	-
25-30	3	10	19	8	-

Q7. Write notes on:

a. Difference between correlation and causation

b. Relationship between correlation and regression coefficient

UNIT-IV

Q8. Write notes on:

a. Theorems of probability

b. Properties of binomial distribution

Q9. The following data show the number of seeds germinating out of 10 on damp filter for 80 set of seeds. Fit a binomial distribution to this data:

X :	0	1	2	3	4	5	6	7	8	9	10
Y :	6	20	28	12	8	6	0	0	0	0	0

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.