

Roll No.

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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 :

- What is data?
- What is randomness?
- What is sample?
- What is mode?
- What is quartile deviation?
- What is Variance?
- What is rank correlation?
- What is regression coefficient?
- What is probability?
- 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:
- Advantages and limitations of stratified sampling.
 - 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:

- Merits and limitations of harmonic mean.
- Properties of Standard deviation.

UNIT-III

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

X \ Y	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:

- Difference between correlation and causation
- Relationship between correlation and regression coefficient

UNIT-IV

Q8. Write notes on:

- Theorems of probability
- 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.