

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 : 12-07-22

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) What is inferential statistics?
- b) What is sampling distribution?
- c) What is frequency distribution?
- d) What is intercept in regression analysis?
- e) What is R-square?
- f) What is mean absolute deviation?
- g) What is deciles and percentile?
- h) What is normal probability distribution function?
- i) What is conditional probability?
- j) What is the multiplication law of probability?

UNIT- I

- Q2. What is the importance of statistics? What are the features, limitations, and scope of statistics?
- Q3. Discuss the probability and non-probability sampling techniques.

UNIT-II

- Q4. What is the procedure to produce a sampling distribution of mean?
- Q5. Find the mean and standard deviation of the following data.

X	57	59	50	55	65	62	64	57	66	58
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UNIT-III

- Q6. The following data shows price and number of units sold at different price levels. Find the correlation between price and number of units sold and interpret the results.

Price	242	216	215	236	232	235	272
Number of units	23.9	23.0	22.9	28.8	29.2	26.4	24.8

- Q7. What is Regression? What is the principal of least square in regression analysis? What is the formula to calculate the regression coefficient?

UNIT-IV

- Q8. Solve the following probability problems :
- a) If $P(A \text{ and } B) = 0.4$ and $P(B) = 0.8$, find $P(A|B)$.
- b) If $P(A) = 0.7$ and $P(B) = 0.6$ and $P(A \text{ and } B) = 0.8$, find $P(A|B)$
- Q9. What is Binomial Distribution? What are the essential properties of binomial distribution? What is the difference between binomial distribution and normal distribution?

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.