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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

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.

<i>Price</i>	242	216	215	236	232	235	272
<i>Number of units</i>	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.