Roll No. ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚ Total No. of Pages : 02

Total No. of Questions : 18

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. Students have to attempt any ONE question from each Sub-section.

SECTION-A

Write briefly :

Q1. What is the difference between the inferential statistics and descriptive statistics?

Q2. What is Sampling Distribution?

Q3. What is difference between parameter and statistics?

Q4. What are properties of median?

Q5. What is Quartile Deviation?

Q6. What is R-square?

Q7. What are the properties of regression coefficient?

Q8. What is Normal Probability Distribution Function?

Q9. What is Marginal Probability?

Q10. What is the addition law of probability?

SECTION-B

UNIT-I

Q11. What are the different sources of primary and secondary data?

Q12. Discuss the probability and non-probability sampling techniques.

UNIT-II

Q13. What is sampling distribution? What is the need of sampling distribution? What is the procedure to produce a sampling distribution of mean?

Q14. Find the mean, standard deviation and variance of the following data :

X	57	59	50	55	56	62	64	57	66	58

UNIT-III

Q15. What is Correlation? What is the difference between rank correlation and simple correlation? What is non-linear correlation?

Q16. The following data shows price and number of units sold at different price levels. Find the effect of price on the number of units sold using least square method?

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

UNIT-IV

Q17. Solve the following probability problems –

a) If P (A and B) = 0.5 and $P(B)$ = 0.7, find $P(A \backslash B)$.

b) If $P(A)$ = 0.6 and $P(B)$ = 0.5 and $P(A$ and $B)$ = 0.7, find $P(A \backslash B)$

Q18. What is Poisson distribution? What are the essential properties of Poisson distribution? What is the difference between binomial distribution and Poisson 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.