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

Total No. of Questions : 07

BBA (Sem.–3)
BUSINESS STATISTICS
Subject Code : BB-304
M.Code : 10516

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 contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) What are the merits of mean?

   b) What are properties of Geometric mean?

   c) What are the uses of Harmonic mean?

   d) What are the applications of coefficient of variation?

   e) What is Karl Pearson's coefficient of Correlation?

   f) What is Regression analysis?

   g) What are the limitations of moving averages method?

   h) What is the classical approach of Probability?

   i) What is Normal Distribution?

   j) What is Bayes' Theorem?

SECTION-B

2. What is meant by tabulation of Data? Discuss in detail rules of tabulation.

3. The following data relate to age of employees and the number of days they were reported sick in a month.

Employees

	1	2	3	4	5	6	7	8	9	10
Age(X)	30	32	35	40	48	50	52	55	57	61
Sick Days(Y)	1	0	2	5	2	4	6	5	7	8

Calculate Karl Pearson's Coefficient of Correlation and interpret it.

4. Find two regression equations for the following two series. What is most likely value of X when Y=20 and most likely value of Y when X = 22?

X :	35	25	29	31	27	24	33	36
Y :	23	27	26	21	24	20	29	30

5. What is Time series analysis? Discuss in detail components of Time series analysis.

6. What is Binomial Distribution? Discuss in detail properties of Binomial Distribution.

7. What is Poisson distribution? Discuss the role of Poisson distribution.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.