Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

BBA/BBA (SIM) (2021 Batch) (Sem.–2)

BUSINESS STATISTICS

Subject Code : BBA-201-21

M.Code : 75916

Date of Examination : 06-07-22

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) Statistics

b) Primary Data

c) Parameter

d) Geometric Mean

e) Range

f) Sampling error

g) Linear Correlation

h) Regression Coefficient

i) Probability

j) Binomial Distribution.

SECTION-B

UNIT-I

2. *"Statistics is a method of decision making in the face of uncertainty on the basis of numerical data and calculated risks".* Explain with suitable illustrations.

3. What are the main objects of sampling? Compare and contrast the merits and drawbacks of sample and census studies.

UNIT-II

4. What are the features of a good average? Compare the mean, median and the mode as a statistical technique. Why averages are called measures of central tendency?

5. Calculate the mean and standard deviation of the following data :

Value	90-99	80-89	70-79	60-69	50-59	40-49	30-39
Frequency	2	12	22	20	14	4	1

UNIT-III

6. Explain what is meant by coefficient of correlation between two variables. What are the different methods of finding correlation? Distinguish between positive and negative correlation?

7. The heights of a sample of 10 fathers and their elder sons are given below (to the nearest cms):

Height of Father (X)	170	167	162	163	167	166	169	171	164	165
Height of Son (Y)	168	167	166	166	168	165	168	170	165	168

Find the regression equation of Y on X.

UNIT-IV

8. The Federal Match Company has forty female employees and sixty male employees. If two employees are selected at random, what is the probability that

a) Both will be males

b) Both will be females

c) There will be none of each sex

Since the three events are collectively exhaustive and mutually exclusive, what is the sum of three probabilities?

9. What do you understand by probability distributions? Discuss their utility in statistics.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.