BBA (SIM)   (Sem. – 2)

BUSINESS STATISTICS

Subject Code: BBA-201-18

M Code: 75916

Date of Examination : 15-12-2022

Time: 3 Hrs.   Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTIONS-B consists of FOUR Sub-sections : UNITS-I, II, III & IV. Each Sub-section contains TWO questions each, carrying TEN marks each.**
3. **Students have to attempt any ONE question from each Sub-section.**

SECTION-A

1. Answer the following:

    a) Define Statistics. Discuss its scope in brief.

    b) What do you mean by central tendency? Define mean median mode.

    c) What do you mean by correlation? Discuss its properties in brief.

    d) What do you mean by Regression? Discuss its types in brief.

    e) What are the mutually exclusive events in probability?

    f) What do you mean by sampling distribution? Discuss its utility.

    g) What do you mean by standard deviation? Discuss its properties in brief.

    h) Discuss in brief the difference between probability and non probability sampling.

    i) Write the formulas to calculate quartile in simple, discrete, and continuous series.

    j) Discuss Descriptive and Inferential Statistics

SECTION-B

UNIT-I

2. What do you mean by statistics? Discuss its scope and limitations in detail.

3. What do you mean by the sampling of data? Discuss various probability and non probability methods of sampling.

UNIT-II

4. What do you mean by Arithmetic mean? Discuss its properties and applications.

5. Calculate the standard deviation of the following data.

Wages Per Week	15	30	45	60	75	90	105	120
No. of Workers	12	30	65	107	157	202	222	230

UNIT-III

6. What do you mean by correlation? Discuss in detail about simple, Partial and multiple correlation.

7. From the data obtain the two regression equations

X	6	2	10	4	8
Y	9	11	5	8	7

UNIT-IV

8. What do mean by probability? Discuss the various approaches to the calculation of probability. Write addition and multiplication laws of probability.

9. A Dice is thrown 10 times. If getting an even number is a success,What is the probability of getting:
   a) at least 6 successes
   b) at most 5 successes

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.