

Roll No.

Total No. of Pages : 03

Total No. of Questions : 09

BBA (SIM) (Sem.-2)

BUSINESS STATISTICS

Subject Code : BBA-201-18

M.Code : 75916

Date of Examination : 17-11-2023

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 :

- Statistics in plural sense
- Secondary Data
- Parameter vs statistics
- Harmonic Mean
- Variance
- Non-Sampling error
- Non-Linear Correlation
- Dependent Variable
- Probability of Success
- Poisson Distribution.

SECTION - B

UNIT-I

2. Define the term statistics and discuss its use in business and trade. Also, point out its limitations.
3. What is sampling? What are essentials of a good sample? Name the various methods of sampling and explain them in brief.

UNIT-II

4. How would you account for the predominant choice of arithmetic mean of statistical data as a measure of central tendency? Under what circumstances it would be appropriate to use median or mode?
5. The arithmetic mean and the standard deviation of a set of 9 items are 43 and 5 respectively. If an item of value 63 is added to the set, find the mean and standard deviation of 10 items.

UNIT-III

6. Explain the meaning and significance of the concept of correlation. How will you calculate it from statistical point of view?
7. The two lines of regression are given by:
 $3x+2y = 6$ and $7x+5y = 12$
 - a. Identify the lines of Regression.
 - b. Estimate Y when X= 10.
 - c. Calculate the value of correlation coefficient between x and y.
 - d. What percentage of total variation remains unexplained by the regression equation of y on x?

UNIT-IV

8. A bag contains 8 black, 3 red and 9 white balls. If 3 balls are drawn at random, find the probability that:
 - a. All are black
 - b. 2 are black and 1 is white
 - c. 1 of each colour
 - d. The balls are drawn in the order black, red and white.
9. What are the conditions under which Binomial Distribution can be used as an approximation to an observed frequency distribution? Discuss different features of Binomial Distribution.

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.