

School of Finance and Commerce

Department of Finance and Commerce

Mid Term Examination

Exam Date: 29 Sep 2023

Time : 90 Minutes

Marks : 50

Sem III - MBAF0903 - Advance Business Statistics

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Explain mutually exclusive events. K2 (2)
- 2) Identify the concepts of statistical population and sample. K1 (3)
- 3) Explain quantitative and qualitative data. K2 (4)
- 4) Illustrate the importance of statistics. K2 (6)
- 5) Box A contains 5 red and 3 white marbles and box B contains 2 red and 6 white marbles. i. If a marble is drawn from each box, find probability that they are both of the same color. K3 (6)
- 6) Calculate co-efficient of correlation from the following data: According to Karl-Pearson X 500 1000 1500 2000 2500 3000 3500 Y 100 200 300 400 500 600 700 K3 (9)
- 7) Define statistics and discuss the importance of statistics in business world with suitable examples. K4 (8)
- 8) Examine the factors that could affect the accuracy of a regression model. K4 (12)

OR

The blood groups of 200 people is distributed as follows: 50 have type A blood, 65 have B blood type, 70 have O blood type and 15 have type AB blood. If a person from this group is selected at random, Calculate probability that this person has O blood type. K4 (12)