A–0733

Total Pages : 3 **Roll No. .....**

MS-104

Master of Business Administration (MBA)

(Quantitative Techniques in Management)

Examination, June 2025

Time : 2:00 Hrs. Max. Marks : 70

Note* :–** This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these sections according to the detailed instructions given therein. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

Section–A

(Long Answer Type Questions) 2×19=38

***Note* :–** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Differentiate between primary and secondary data. Discuss the importance of classification and tabulation in statistical analysis.

2. Discuss the measures of central tendency (mean, median, and mode). How do they help in summarizing data ? Include examples.

3. Define range, mean deviation, and standard deviation. Compare their significance in measuring data variability.

4. What is regression analysis ? Discuss the relationship between regression and correlation, and explain the properties of regression coefficients.

5. Explain Karl Pearson's coefficient of correlation and rank correlation methods. Discuss their applications and limitations with examples.

Section–B

(Short Answer Type Questions) 4×8=32

***Note* :–** Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. What is Binomial Distribution ? Give suitable example.

2. Define critical path in the context of CPM.

3. What is the graphical solution method in linear programming ?

4. Define standard deviation. How does mean deviation calculated ? Give example.

5. Mention significant uses of statistics in business.

6. What is the purpose of a histogram ?

7. Given the following data, calculate Karl Pearson's coefficient of correlation :

X	2	4	6	8	10
Y	5	7	9	11	13

8. A bag contains 4 red balls, 5 blue balls, and 3 green balls. What is the probability of drawing :

   (a) A red ball ?

   (b) A blue ball or a green ball ?

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