

A-0782

Total Pages : 4

Roll No. -----

MS-104

Quantitative Techniques in Management

Master of Business Administration (MBA)

1st Semester Examination 2024(Dec.)

Time: 2:00 hrs

Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into Two (02) Section 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.

P.T.O

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Section-A

(Long-Answer-Type Questions)

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.

(2x19=38)

- Q.1. Explain the concept, significance, and limitations of business statistics. How is it applied in managerial decision-making?
- Q.2. What is a frequency distribution? Explain how graphical representations like histograms, pie charts, and line graphs enhance data interpretation.
- Q.3. Discuss the additive and multiplicative laws of probability. How joint probabilities are calculated, and why are they important in business analysis?

- Q.4. Discuss PERT and CPM as project management tools. Explain their methodologies, applications, and differences with suitable examples.
- Q.5. Explain the graphical solution method and simplex method in linear programming. Discuss their application in solving business optimization problems.

Section-B

(Short-Answer-Type Questions)

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.

[4x8=32]

- Q.1. In a binomial distribution, if $n=5$ and $p=0.6$, calculate the probability of exactly 3 successes.

P.T.O

- Q.2. Compute the range and standard deviation for the data: 8,10,12,14,16
- Q.3. When is Poisson distribution used?
- Q.4. Define kurtosis and skewness.
- Q.5. How does secondary data differ from primary data?
- Q.6. What are the importance and limitations of business statistics?
- Q.7. Define tabulation in the context of statistical data.
- Q.8. What is the purpose of Karl Pearson's coefficient of correlation?
