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MASTER OF BUSINESS ADMINISTRATION (M.B.A.)
EXAMINATION: DECEMBER - 2025
SEMESTER - II

Sub.: Statistical and Quantitative Methods (MBA24-201)

Date : 31/12/2025

Total Marks : 60

Time: 10.00am to 12.30pm

Instructions: 1) All questions are compulsory.
 2) Figures to the right indicate full marks.

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| Q. 1. | Write Short notes on (Any Three) | (15) |
| | <ol style="list-style-type: none"> 1. Arithmetic Progression (AP) 2. Meaning and Scope of Statistics 3. Measures of Dispersion 4. Graphical Method of Linear Programming 5. Primary and Secondary Data | |
| Q. 2. | Answer in detail (Any One) | (10) |
| | <ol style="list-style-type: none"> 1. Define Statistics and describe its functions and importance. 2. Explain addition and multiplication laws of probability with examples. | |
| Q. 3. | Answer in detail (Any One) | (10) |
| | <ol style="list-style-type: none"> 1. Discuss different types of data collection methods. 2. Explain Linear Programming and steps involved in solving it. | |
| Q. 4. | Answer in detail (Any One) | (10) |
| | <ol style="list-style-type: none"> 1. Solve a Linear Programming maximization problem using graphical method.
 Example problem:
 Maximize $Z = 3x + 5y$
 Subject to:
 $x + y \leq 4$
 $x \geq 0, y \geq 0$ 2. A retail store reports quarterly sales (in lakhs) as:
 10, 12, 14, 16, 18. Identify progression type and find common difference. Predict sales in 10th quarter. Calculate total sales of first 10 quarters. | |
| Q. 5. | Case study | (15) |
| | Employee Productivity Consistency
Five employees produce units:
40, 42, 38, 45, 35
<ol style="list-style-type: none"> 1. Calculate mean and SD. 2. Comment on consistency. 3. Suggest measure of dispersion for comparison. | |