

**BACHELOR OF BUSINESS
ADMINISTRATION (SERVICES
MANAGEMENT)**

[(BBA(SM))]

Term-End Examination

June, 2025

**BSM-008 : BASIC QUANTITATIVE
TECHNIQUES**

Time : 2 Hours

Maximum Marks : 50

Note : *Attempt all questions.*

1. Answer all the questions. Each question carries 1 mark.
 - (a) State whether the following statements are true/false : 1×5=5
 - (i) Statistics is primarily concerned with counting and calculating.

- (ii) Gender (Male/Female) is an example of quantitative data.
 - (iii) A bar chart is a suitable graphical representation for displaying the distribution of various classes of the college.
 - (iv) The mode of a dataset is always unique.
 - (v) The sum of pie chart is 360° .
- (b) Fill in the blanks : $1 \times 5 = 5$
- (i) The range is calculated by subtracting the from the largest value in a dataset.
 - (ii) A histogram is a graphical representation suitable for displaying the of a dataset.

- (iii) The standard deviation of 12, 12, 12, 12, 12 is
- (iv) The is the most appropriate measure of central tendency for skewed datasets.
- (v) The standard deviation is a measure of that indicates how spread out the values in a dataset are.
2. Briefly explain any *five* of the following in about **100** words each : 2×5=10
- (a) Regression
 - (b) Variance
 - (c) Normal Distribution
 - (d) Skewness
 - (e) Z-Score
 - (f) Random Sample
 - (g) Correlation
 - (h) Hypothesis

3. Answer any *four* of the following questions in about **250** words each. Each question carries 5 marks : $5 \times 4 = 20$

- (a) Differentiate between Qualitative and Quantitative Data.
- (b) Explain the concept of range in statistics.
- (c) Discuss the advantages and disadvantages of using a bar chart.
- (d) What is the purpose of calculating the coefficient of variation in data analysis ?
- (e) Describe the steps involved in constructing a frequency distribution.
- (f) Explain the difference between positive skewness and negative skewness in a distribution.

4. Answer any *one* of the following questions in about **500** words. Each question carries 10 marks : 1×10=10

- (a) Examine the implications and advantages of compound interest in financial scenarios, particularly in the context of a ₹ 60,000 deposit compounded annually at a 9% rate over 5 years.
- (b) Provide a comprehensive explanation of skewness, covering its significance in statistical analysis and how it measures the asymmetry of a distribution.

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