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BSM-008

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

Term-End Examination

June, 2023

BSM-008 : BASIC QUANTITATIVE TECHNIQUES

Time : 2 Hours

Maximum Marks : 50

Note : *All questions are compulsory.*

1. (a) State whether the following statements are True or False : 5×1=5
- (i) Statistics does not study about individuals.
 - (ii) Census report collects data easily as compared to sampling.
 - (iii) Multiply bar graphs represent two or more sets of data simultaneously.

P. T. O.

- (iv) The sum of pie chart is 240° .
- (v) Mode is most frequently occurring number found in set of numbers.

(b) Fill in the blanks : $5 \times 1 = 5$

- (i) Range = Largest value (L) –
value (S).
- (ii) The standard deviation of 7, 7, 7, 7, 7
is
- (iii) A set of one or more outcomes of a
random experiment is called as
.....
- (iv) F-distribution is also known as
..... distribution.
- (v) Total Costs (TC) = Fixed +
costs.

2. Briefly explain any *five* of the following in
about **100** words each : $5 \times 2 = 10$

- (a) Break-Even Analysis

- (b) Demand Forecasting
 - (c) Skewness
 - (d) Median
 - (e) Attributes and Variables
 - (f) Student's *t*-distribution
 - (g) Frequency distribution
 - (h) Simple interest
3. Answer any ***four*** of the following in about **250** words each : 4×5=20
- (a) Explain main parts of a table.
 - (b) How is secondary data collected ?
 - (c) What are the different types of histogram ?
Explain.
 - (d) Differentiate between primary data and secondary data.
 - (e) Discuss the limitations of statistics.
 - (f) What is a bar graph ? What are its different types ?

4. Answer any *one* of the following questions in about **500** words each : 1×10=10

- (a) Explain the empirical relationship among mean, median and mode for a given data, if mean = 70 and mode = 76. How can median be calculated ?
- (b) What do you understand by depreciation ? List some major causes of depreciation.