# BACHELOR OF BUSINESS ADMINISTRATION (SERVICES MANAGEMENT) <br> (BBASM) 

Term-End Examination

June, 2022

## 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) Fill in the blanks : $5 \times 1=5$
(i) Statistics is used in two senses : singular and $\qquad$ .
(ii) Quantitative data are called variables, and qualitative data are called $\qquad$ .
(iii) The minimum and maximum values in each class interval are known as
$\qquad$ .
(iv) There are three different types of mean, namely arithmetic mean (AM), geometric mean (GM) and $\qquad$ .
(v) Calculate the range from the data given below : $120,140,150,165,175,200,250,275,300$
(b) State whether the following statements are True or False : $5 \times 1=5$
(i) The concept of standard deviation was introduced by the renowned statistician Karl Pearson.
(ii) Skewness is a measure of the degree of asymmetry of a distribution.
(iii) Increase in value of fixed assets is 'depreciation'.
(iv) If a customer pays ₹ 200 for a product that costs ₹ 170 to make and sell, the company earns a profit of ₹ 30 .
(v) Questionnaire is a tool to collect secondary data.
2. Briefly explain any five of the following in about 100 words each :
(a) Primary Data
(b) Histogram
(c) Mean
(d) Dispersion
(e) Probability
(f) Chi-square ( $\chi^{2}$ ) Distribution
(g) Compound Interest
(h) Break-Even Analysis
3. Answer any four of the following in about 250 words each : $4 \times 5=20$
(a) Distinguish between Census and Sample survey.
(b) Briefly explain the various types of tabulation.
(c) What is a Median? Explain.
(d) What are the characteristics of a good questionnaire?
(e) What is Standard Normal Distribution?
(f) List the methods of demand forecasting.
4. Answer any one of the following questions in about 500 words : $1 \times 10=10$
(a) Mr. A has deposited ₹ 6,000 in a Savings Account. Bank pays interest at a rate of 9\% per year. Compute the amount of interest that will be earned over a 5 -year period :
(i) If the interest is simple
(ii) If the interest is compounded annually
(b) Explain Skewness. How is Positively skewed distribution different from Negatively skewed distribution?
