BACHELOR OF BUSINESS ADMINISTRATION (SERVICES MANAGEMENT) (BBASM)

Term-End Examination June, 2022

BSM-008: BASIC QUANTITATIVE TECHNIQUES

Time : 2 hours			Maximum Marks : 50	
Note: Attempt all questions.				
ι.		Answer <i>all</i> the questions. Each question carries mark.		
	(a)	Fill	in the blanks : $5 \times 1 = 5$	
		(i)	Statistics is used in two senses : singular and	
		(ii)	Quantitative data are called variables, and qualitative data are called	
		(iii)	The minimum and maximum values in each class interval are known as	

- (iv) There are three different types of mean, namely arithmetic mean (AM), geometric mean (GM) and _____.
- (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.

Briefly explain any *five* of the following in about 2. 100 words each: $5 \times 2 = 10$ (a) **Primary Data** (b) Histogram (c) Mean (d) Dispersion (e) **Probability** (f) Chi-square (χ^2) Distribution (g) Compound Interest (h) Break-Even Analysis Answer any four of the following in about 3. 250 words each: $4 \times 5 = 20$ (a) Distinguish between Census and Sample survey. (b) Briefly explain the various types of tabulation. What is a Median? Explain. (c) (d) What are the characteristics of a good questionnaire?

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What is Standard Normal Distribution?

List the methods of demand forecasting.

(e)

(f)

- **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?