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**BSM-008** 

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

## **Term-End Examination**

### **June**, 2024

### **BSM-008 : BASIC QUANTITATIVE TECHNIQUES**

Time : 2 Hours

Maximum Marks : 50

*Note* : *All questions are compulsory.* 

- 1. Answer all the questions. Each question carries 1 mark : 1×10=10
  - (a) Statistics does not study ...... characteristics.
  - (b) ..... is the most common instrument of collecting the primary data.
  - (c) State True or False : Minor difference in figures cannot be 'shown easily.
  - (d) The arithmetic mean of 12, 14, 16, 18, 20 is :
    - (i) 15 units

- (ii) 14 units
- (iii) 16 unit
- (iv) 20 units
- (e) The range of the distributions 150, 180, 240, 300, 245, 255, 270, 210, 225 is :
  - (i) 120 units
  - (ii) 130 units
  - (iii) 140 units
  - (iv) 150 units
- (f) When a coin is tossed, what is the probability of getting head ?
  - (i) 1
  - (ii) 1/4
  - (iii) 1/2
  - (iv) 0
- (g) F-Distribution is also known as ......
- (h) State True or False : There are two methods to calculate depreciation.

- (j) In statistics, conducting survey means :
  - (i) Collecting information from elements
  - (ii) Making mathematical calculations
  - (iii) Drawing graphs and pictures
  - (iv) None of the above
- Answer any *five* of the following in about 100 words each. Each question carries 2 marks : 2×5=10
  - (a) What are the different types of data ?
  - (b) What do you mean by tabulation ?
  - (c) What are the various measures of central tendency ?
  - (d) What do you understand by standard deviation?
  - (e) What is a random experiment ?
  - (f) Define normal distribution.
  - (g) What is simple interest?
  - (h) What do you mean by demand forecasting ?

#### P. T. O.

 $5 \times 4 = 20$ 

Answer any *four* of the following in about **250** words each. Each question carries

5 marks :

3.

- (a) Find the median of the numbers :33, 86, 68, 32, 80, 48, 70.
- (b) Discuss the characteristics of a normal distribution curve.
- (c) A loan of ₹ 10,000/- has been issued for 6 years. Compute the amount to be repaid to the lender if simple interest is charged @ 5% per year.
- (d) What are the methods of demand forecasting? Discuss.
- (e) Discuss the role of statistics in business planning.
- (f) What are the different types of frequency distribution ? Discuss the steps involved to construct a frequency table.
- 4. Answer any *one* question in **500** words :

 $10 \times 1 = 10$ 

 (a) Frequency distribution of weights of 2000 students is given in the following table. Draw a histogram to represent the distribution :

Weights (in lbs)	No. of Students
90—100	500
100—110	700
110—120	300
120—130	400
130—140	100

(b) Calculate the Arithmetic Mean (AM) from the following data by Short-Cut method :

Marks	No. of Students
0—10	4
10—20	10
20—30	18
30—40	20
40 - 50	24
50—60	14
60—70	6
70—80	4

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