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BSM-008

BACHELOR OF BUSINESS

ADMINISTRATION

(SERVICES MANAGEMENT) (BBASM)

Term-End Examination

December, 2021

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) Statistics does not study characteristics.
 - (b) Statistics considers
 - (i) A set of items
 - (ii) A single item

- (iii) Either a single item or a set of items
- (iv) Neither a single item nor a set of items

(c) State True or False :

Census report is an economical tool to collect data in comparison to sampling.

(d) means separating items according to similar characteristics and grouping them into various classes.

(e) The geometric mean of 3, 12 and 48 is :

- (i) 14 units
- (ii) 12 units
- (iii) 13 units
- (iv) 15 units

(f) State True or False :

In a 'normal distribution' the mean, median and mode have similar values.

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(g) State True or False :

Analysis of variance is a statistical method of comparing the standard deviations of several populations.

(h) is arrived at by discounting all future cash inflows to present value using opportunity cost as the discount rate and deducting the initial investment.

(i) State True or False :

Demand forecasting is convenient for capital goods.

(j) State True or False :

At BEP, there is no profit, no loss to the firm.

2. Answer any **five** of the following questions in about **100** words each. Each question carries 2 marks.

(a) Discuss the limitations of statistics.

(b) What are the different types of data ?

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(c) Discuss the objectives of Classification.

(d) What are the *two* limitations of diagrammatic representation of data ?

(e) List the advantages of Geometric Mean.

(f) What do you mean by skewness ?

(g) What is meant by sample space ?

(h) What do you understand by normal distribution ?

3. Answer any **four** of the following questions in about **250** words each. Each question carries 5 marks.

(a) Discuss characteristics of a good questionnaire.

(b) From the collection point of view, data are of two types : primary and secondary. Differentiate between them.

(c) Find the HM of 3, 6, 12 and 14.

P. T. O.

(d) Discuss Odds in favour of and Odds against an event.

(e) Calculate the S. D. and coefficient of variation from the following data :

12, 15, 10, 8, 11, 13, 18, 14, 9

(f) Discuss various theorems of probability.

4. Answer any *one* question in **500** words : 10

(a) What do you understand by normal distribution ? Also discuss the properties of normal distribution.

(b) The cost of an asset is ₹ 5,00,000, the estimated life of the asset is 10 years and the net residual value is ₹ 1,00,000. Calculate per year depreciation and the rate of depreciation.