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Total Number of Pages : 2 AR-19

BBA 1ST SEMESTER EXAMINATIONS (REGULAR), NOV/DEC 2019
103 –Quantitative Techniques for Management

Time : 3 Hours

Maximum : 70 Marks

The figures in the right hand margin indicate marks.

PART – I: (Multiple Choice Questions) 10x1=10 Marks

Q.1. Answer All Questions.

- a. The word statistics is used as
 - a) Singular b) Plural c) Singular and Plural d) None of the above.
- b. Statistical data are collected for
 - a)Collecting data without only purpose b) a given purpose c) any purpose d) None
- c. Which of the following is one dimensional diagram?
 - a) Bar diagram b) Pie chart c) Cylinder d)a graph
- d. Mean is a measure of
 - a) Location b) Dispersion c) Correlation d) None of the above
- e. Which of the following represents median?
 - a) First Quartile b) Second Quartile c) Sixth deciles d) Third Quartile
- f. Out of all Measures of dispersion the easiest one to calculate is
 - a) Standard deviation b) Range c) Variance d) Quartile deviation
- g. If $\beta_{yx} < 1$, then, β_{xy} is
 - a) less than 1 b) greater than 1 c) equal to 1 d) equal to 0.
- h. If $\rho=0$ the lines of regression are
 - a) Coincident b) parallel c) perpendicular to each other d) None of the above
- i. The Range of Simple Correlation coefficient is
 - a) 0 to ∞ b) $-\infty$ to $+\infty$ c) 0 to 1 d) -1 to + 1
- j. The lines of regression intersect at the point
 - a) (X,Y) b) (\bar{X}, \bar{Y}) c) (0,0) d) (1,1)

PART – B: (Short Answer Questions)10x2=20 Marks

Q.2. Answer All questions

- a. Define Statistics.
- b. Name the two kinds of Statistical data.
- c. Write any two uses of bar diagram.
- d. Write any two properties of a good measure of central tendency?
- e. Define Median.
- f. What are measures of Dispersion?
- g. Define Moments.
- h. Define Correlation coefficient.
- i. Write the Regression Equations.
- j. What is coefficient of Determination?



PART – C: (Short Answer Questions) 4x10=40 Marks

Q3.

- a. Explain the importance of Statistics.
- b. Explain the Limitation of statistical method.
(OR)
- c. Describe the classification of Data.
- d. Explain the Types of Diagram.

Q4.

- a. Discuss the merits and demerits of Averages.
- b. Calculate the Arithmetic mean for the following
Wages(in Rs) : 59 60 61 62 63 64
No of Workers: 6 7 9 12 18 8
(OR)

- c. Establish the relation between Mean Median and Mode.
- d. Calculate the Median for the following data.
Marks : 10 23 18 38 65 92 40 58
No .of Students : 8 12 16 12 10 18 4 1

Q5.

- a. What are the measures of Relative Dispersion?
- b. Find the Standard deviation for the following Data.
Value : 10 20 30 40 50 60 70
Frequency : 1 5 12 22 17 9 4
(OR)

- c. Briefly explain the measure of Kurtosis.
- d. Write short notes on Skewness.

Q6.

- a. Discuss the properties of Correlation.
- b. Find the Correlation coefficient for the following data.
X: 65 66 67 67 68 69 70 72
Y: 67 68 65 68 72 72 69 71
(OR)

- c. Explain the concept of multiple Regressions.
- d. Calculate Rank correlation for the following data.
X: 53 98 95 81 75 71 59 55
Y: 47 25 32 37 30 40 39 45