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Total No. of Questions : 13

Total No. of Printed Pages : 4

Calculate the coefficient of correlation between X and Y from the following data—

| X | Y |
|----|----|
| 23 | 18 |
| 27 | 22 |
| 28 | 23 |
| 29 | 24 |
| 30 | 25 |
| 31 | 26 |
| 33 | 28 |
| 35 | 29 |
| 36 | 30 |
| 39 | 32 |

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M.B.A. (Ist Sem.) (F.T.) Examination-2015-16

QUANTITATIVE METHODS

Paper-CP-102

Time Allowed : Three Hours

Maximum Marks : 80

Note : Attempt all questions.

Section-A

Short Answer Type Questions

Note : Attempt any four questions from this section. Each question carries 8 marks.

Q.I Discuss any two of the following—

- (a) Mean
- (b) Median
- (c) Mode

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Q.II What do you understand by the t-test or F-test.

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Q.XIII Discuss the meaning of probability and theoretical frequency distribution. Explain the features of normal distribution.

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Q.III Explain the different methods of computing dispersion.

Q.IV Explain any two of the following—

- (a) Mutually exclusive event
- (b) Dependent event
- (c) Skewness
- (d) Kurtosis

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Q.V Discuss the features of binomial distribution or poisson distribution.

Q.VI Find the median from the following data —

X: 23, 13, 17, 19, 20, 21, 16, 18, 17, 25

Q.VII Write a note on regression analysis.

Q.VIII A bag contains 4 white, 2 black, 3 yellow and 3 red balls. What is the probability of getting a white or a red ball at random in a single draw of one.

Section-B

Long Answer Type Questions

Note : Attempt any three questions from this section. Each question carries 16 marks.

Q.IX What are the components of time series. Discuss the utility of time series analysis in business.

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Q.X Find the Mean or Mode of the following data—

| Marks (X) | Students (f) |
|---------------|------------------|
| 0-10 | 2 |
| 10-20 | 18 |
| 20-30 | 30 |
| 30-40 | 45 |
| 40-50 | 35 |
| 50-60 | 20 |
| 60-70 | 6 |
| 70-80 | 3 |

Q.XI Calculate standard deviation from the following data—

| Marks (X) | Students (f) |
|---------------|------------------|
| 5 | 2 |
| 10 | 7 |
| 15 | 11 |
| 20 | 15 |
| 25 | 10 |
| 30 | 4 |
| 35 | 1 |

Q.XII Discuss the concept of correlation analysis.