BBA-05

December - Examination 2016

BBA Pt. I Examination

Fundamentals of Business Statistics

Paper - BBA-05

Time : 3 Hours]   **[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A $8 \times 2 = 16$

(Very Short Answer Type Questions)

Note: Answer **all** questions. As per the nature of the questions you delimit your answer in one sentence or upto 30 words. Each question carries 2 marks.

1)   (i)   What do you mean by Secondary Data?

    (ii)   What do you understand by the term 'Inclusive series'?

    (iii)   Explain any two differences between 'Skewness and Dispersion'.

    (iv)   What is 'Rank correlation'?

(v) compute the Index Numbers for each year from the following prices of a commodity with 2011 as base:

Years	Price in Rs.
2011	20
2012	25
2013	50
2014	80
2015	100

(vi) What do you understand by 'cumulative frequency curve (Ogive curve)'?

(vii) What are the components of Time Series?

(viii) Find the values of:

(i) $^6P_2$ (ii) $^7P_4$

Section - B $4 \times 8 = 32$

(Short Answer Type Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

2) Distinguish between:

(i) Continuous series and Discrete series

(ii) Correlation and Regression

3) What is meant by 'Dispersion'? Explain any one method of measuring dispersion.

4) Compute the trend for the following data using method of 'Least squares':

Years	Price in Rs.
2011	83
2012	92
2013	71
2014	90
2015	162

5) Write short notes on following:

(i) Median

(ii) Karl Pearson's coefficient of correlation

6) What is a 'Questionnaire'? What is the difference between questionnaire and schedule? What are the chief requirements of a good questionnaire?

7) (i) If a card is drawn from a pack of 52 cards. What is the probability that drawn card is either a Jack or a Queen?

(ii) 40 balls are numbered from 1 to 40 and are put into a bag. What is the probability that the ball drawn is a multiple of 5 or 6 or 8.

8) Discuss in brief the Binomial method of Interpolation. Also discuss the assumption under which this method is most suitable.

9) Discuss the meaning, utility and limitations of the 'Diagrammatic Representation of Data'.

Section - C $2 \times 16 = 32$

(Long Answer Type Questions)

Note: Answer **any two** questions. Each question should not exceed 500 words. Each question carries 16 marks.

10) From the following data calculate mean, median and mode:

Marks	No. of students
0-10	8
10-20	12
20-30	8
30-40	7
40-50	5

11) What is 'skewness'? How will you measure it? Explain.

12) Write explanatory notes on the following: (any two)
    (i)   Langrange's method of interpolation
    (ii) Yule's coefficient of Association of Attributes
    (iii) Regression coefficients

13) From the following data, calculate Fisher's Index Number and also show as to how it satisfies the time reversal test and factor reversal test:

Commodities	Base year		Current year	
	Price	Quantity	Price	Quantity
A	6	50	10	55
B	2	100	2	120
C	4	60	6	60
D	10	30	12	24
E	8	40	12	36

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