

Code No. 3510 / E

Max. Marks: 80

FACULTY OF COMMERCE

B.Com. (CBCS) III - Semester Examination, December 2017

(Common Paper for General/Computers/Computer Applications/ Advertising/Foreign Trade and Tax Procedure Courses)

Business Statistics - I

Paper Code-BC-306

Time: 3 hours

Part - A (5 X 4 = 20 Marks)

Note: Answer any Five of the following questions

- Define the term 'Statistics' in plural sense.
- Limitations of statistics
- Functions of Diagrams.
- The mean of the following series is Rs.115.86. Find the missing figure.

? 125 128 130 110 112 113 117 House Rent (Rs.): 2 6 14 8 13

No. of Houses 25

Calculate the Harmonic mean from the following data. 10 12 14 16 18 20 X 18 20 10 6 1

Find out the value of quartile deviation from the following data.

5 6 2 3 Roll No : 30 42 60 18 45 24 75 Marks :

- In a certain distribution the following results were obtained. Mean = 45 Median = 48, Karl Pearson co-efficient of skewness = -0.4, Calculate the value of standard deviation.
- 8 Types of correlation

Part - B (5 X 12 = 60 Marks)

Note: Answer the following questions not exceeding FOUR pages each.

a) Define statistics and explain its scope and importance.

- b) Define sampling. Discuss various sampling techniques.
- 10 a) The following table shows the results of B.Com. students of a university for the last three years. Represent the same by a multiple bar diagram.

	Exam Results of B.Com students			
Year 2014 2015 2016	I Division 50 60	II Division 150 200 250 OR	III Division 250 300 350	Failed 150 140 150

...2.



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b) The following table shows the marks obtained by students in a class

Marks: 10-20 20-30 30-40 40-50 50-60 60-70 70-80 No. of 3 10 14 24 17 14 3 Students:

11 a) Calculate median from the following data.

Marks above above

b) Calculate mode from the following data:

Marks: 0-10 10-20 20-30 30-40 40-50 50-60 60-70 Frequency: 5 15 20 20 32 14 14

12 a) From the following data calculate mean deviation from the median.

C.I. 16-20 21-25 26-30 31-35 36-40 41-45 46-50 51-55 56-60 Frequency: 8 15 43 20 11 7 3 2 1

OR firm which was carrying on business from 1st January 2015 gets itself incorporated as a company on 1st May 2015. the first accounts are drawn up C.I. 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90 90-100

Frequency: 3 5 7 10 12 15 12 6 2 8

13 a) Calculate Karl Pearson's co-efficient of correlation from the following data :

x 3 4 6 7 10 f 9 11 14 15 16 OR

b) From the following data calculate rank correlation.

x: 20 25 60 45 80 25 55 65 25 75 f: 45 50 55 50 60 70 72 78 80 63

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b) The following table shows the marks obtained by students in a class

Marks: 10-20 20-30 30-40 40-50 50-60 60-70 70-80 No. of 3 10 14 24 17 14 3 Students:

Present the data in the form of a Histogram.

11 a) Calculate median from the following data.

FirstRanker.com

above above above above Marks above above above above 90 80 70 20 30 40 50 60 16 124 84 200 195 177 157 142 OR

b) Calculate mode from the following data:

Marks: 0-10 10-20 20-30 30-40 40-50 50-60 60-70 Frequency: 5 15 20 20 32 14 14

12 a) From the following data calculate mean deviation from the median.

C.I. 16-20 21-25 26-30 31-35 36-40 41-45 46-50 51-55 56-60 Frequency: 8 15 13 20 11 7 3 2 1

b) Calculate Karl Pearson's co-efficient of skewness for the following data:

C.Í. 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90 90-100 Frequency: 3 5 7 10 12 15 12 6 2 8

13 a) Calculate Karl Pearson's co-efficient of correlation from the following data:

x 3 4 6 7 10 f 9 11 14 15 16 OR

b) From the following data calculate rank correlation.

x: 20 25 60 45 80 25 55 65 25 75 f: 45 50 55 50 60 70 72 78 80 63
