

FACULTY OF COMMERCE**B.Com. III – Semester (CBCS) Examination, June/July 2019****(Common Paper for General / Computers / Computer Applications / Advertising / Foreign Trade and Tax Procedure Courses)****Subject: Business Statistics – I****Paper Code – BC – 306****Time: 3 Hours****Max.Marks: 80****PART – A (5x4 = 20 Marks)
[Short Answer Type]****Note: Answer any five of the following questions.**

- 1 Distrust of Statistics
- 2 Steps in Statistical Investigation
- 3 False Base Line
- 4 The mean weight of 120 students of B.Com Class is 60 Kgs. The mean weight of boys is 55 Kgs and that of girls is 45 Kgs. Find the number of boys and girls.
- 5 Given that the Quartile Deviation of a frequency distribution is 40, Median is 32 and Bowley's Coefficient of Skewness is 0.5. Find the two Quartiles.
- 6 Explain the Positive And Negative Correlation with suitable examples.
- 7 An aeroplane flies along the four sides of a square at varying speeds of 200, 400, 600 and 800 miles per hour respectively. What is the average speed of the plane?
- 8 Find Coefficient of Concurrent Deviation given that $n=5$ and number of concurrent deviations (i.e. C) are 5.

**PART – B (5x12 = 60 Marks)
[Essay Answer Type]****Note: Answer the following questions not exceeding four pages each.**

- 9 a) Define Statistics in Singular Sense. Explain its functions and list out its limitations.
OR
b) What do you mean by Mailed Questionnaire Method? Explain the points to be kept in mind while drafting a good questionnaire.
- 10 a) Distinguish between One dimensional and Two dimensional diagrams and represent the following data related to the monthly expenditure of a family through a Pie-Diagram.

Item	Food	Clothing	Rent	Education	Others
Monthly Expenditure in Rs.	4,800	4,000	7,200	3,600	2,400

OR

- b) How is a Histogram different from a Bar Diagram? Prepare a Histogram for the following data.

Sales	0-10	10-20	20-30	30-40	40-50	50-60
No. of Co.s	7	32	56	49	42	14

11 a) Calculate Median from the following data.

Marks	0-9	10-19	20-29	30-39	40-49	50-59	60-69
No. of Students	6	10	20	25	16	12	5

OR

b) Calculate Modal Weight from the following data.

Wt. in Lbs	100-110	110-120	120-130	130-140	140-150	150-160	160-170	170-180
No. of Persons	4	6	20	32	33	17	8	2

12 a) From the marks of two students given below. Find out who is more consistent.

A	25	50	45	30	70	42	36	48	34	60
B	10	70	50	20	95	55	42	60	48	80

OR

b) From the following data calculate Karl Pearson's Coefficient of Skewness

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Students	12	28	40	60	32	18	10

13 a) Calculate Karl Pearson's Coefficient of Correlation for the following data.

X	7	6	5	4	3	2	1
Y	18	16	14	12	10	6	8

OR

b) From the ranks of 10 students in Accountancy and Statistics given below, calculate Rank Correlation Coefficient and Comment on the value. <https://www.osmaniaonline.com>

Ranks in Accountancy	1	2	3	4	5	6	7	8	9	10
Rank in Statistics	1	3	5	6	7	4	8	10	9	2
