

B.Com. (CS) Degree Examinations - Even Semester 2021
II Year III Semester
Statistics - I

Max Marks: 25

Answer any Five questions (5 * 5 = 25)

1. Enlist the primary and secondary sources of statistical data. Briefly explain.
2. The selling price of a product contains the following elements of costs and profit, draw a pie diagram:

Prime cost	30%
Factory Overhead	18%
Administrative Overhead	28%
Selling and Distribution Overhead	14%
Profit	10%

3. What is Ogive Curve? Draw a ogive curve and find out the median from the ogive curve for the following data:

Marks	No. of Students
10-20	6
20-30	10
30-40	15
40-50	30
50-60	35
60-70	20
70-80	17
80-90	10
90-100	7

4. The following data is related to the net profit of 75 factories located in a city. Calculate Q1, Q2 (Median) and Q3:

Net Profit (in Rs.)	0- 25,000	25,000- 35,000	35,000- 45,000	45,000- 55,000	55,000- 65,000
No. of factories	12	18	30	8	7

5. The data relating to the monthly production of a product in 2 factories are given below:

Factory	Monthly Production in Tonnes											
	1	2	3	4	5	6	7	8	9	10	11	12
A	30	50	45	54	49	53	60	46	41	56	59	45
B	70	120	20	15	150	100	90	80	10	25	95	85

Find out which factory is more efficient and which factor is more consistent.

NOTE: Use Mean and Coefficient of Variation.

6. Calculate Karl Pearson's Co-efficient of Skewness by using Mean and Mode, from the following data:

Marks	No. of Students
00-10	4
10-20	11
20-30	15
30-40	26
40-50	10
50-60	11
60-70	9
70-80	6
80-90	2
90-100	4

7. Calculate Bowley's coefficient of skewness for the data given below:

Daily Income (Rs.)	250	350	400	450	500	550	600
No. of Workers	7	9	9	12	10	9	5