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V SEMESTER BBA EXAMINATION – MARCH / APRIL – 2022

SCHEME – SEMESTER – CBCS

065

BUSINESS STATISTICS - I

Time: 03 Hours

Max Marks: 80

Instructions to Candidates: Answer all parts.

PART – A

Answer any TWO of the following. Each Question carries 15 Marks: $15 \times 2 = 30$

1. Find Mean, Median, Mode from the following data.

Marks Scored Less than	No. of Students
20	2
30	7
40	17
50	23
60	30
70	34

2. Find Kerl Pearson's co-efficient Correlation from the following table

CI	F
0-10	2
10-20	8
20-30	12
30-40	15
40-50	10
50-60	8
60-70	16
70-80	13
80-90	4
90-100	5

3. Find which series is more Consistent from the following data.

Price Per Unit	50-59	60-69	70-79	80-89	90-99	100-109
Product A	4	3	5	9	7	6
Product B	6	4	8	2	5	3

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- 4. Define statistics? Explain the different methods of collection of data with suitable examples?

PART – B

Answer any **THREE** of the following. Each Question carries 10 Marks: **10x3=30**

- 5. From the following data calculate Q1 Q2 Q3 and QD

CI	10-20	20-30	30-40	40-50	50-60	60-70
F	10	12	17	13	22	26

- 6. Construct Regression equations from the following data.

Series X	36	23	27	28	28	29	30	31	33	35
Series Y	29	18	20	22	27	21	29	27	29	28

- 7. Find Karl Pearson’s coefficient of skewness.

CI	0-10	10-20	20-30	30-40	40-50
F	2	4	9	1	3

- 8. Write short notes on Statistical Modeling and its business applications.

- 9. Find Harmonic Mean from the following data.

35, 54, 52, 53, 56, 58, 52, 55

PART – C

Answer any **FOUR** of the following. Each Question carries 5 Marks: **5x4=20**

- 10. Write short notes on characteristics of Statistics.
- 11. What do you understand by SPSS? How is SPSS useful in the processing of data.
- 12. Write short notes on the Advantages of Excel Spread Sheets in the representation of data.
- 13. Given $SD_x = 24.16$

$SD_y = 30.00$

$r = 0.8$

Find b_{xy} and b_{yx}

- 14. Explain positive and negative correlation with examples.
- 15. Explain different types of Skewness.

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