

B.M.S COLLEGE FOR WOMEN

BENGALURU – 560004

I SEMESTER END EXAMINATION – JAN/FEB - 2024

B.Com- BDA: BUSINESS STATISTICS - I
(NEP Scheme 2022-23 onwards)

Course Code: BBDA1DSC03

Duration: 2 ½ Hours

QP Code:1040

Max. Marks: 60

SECTION-A

1. Answer any Five of the following questions. Each question carries Two Marks. (5x2=10)

- a. Define Statistics.
- b. What is a Questionnaire?
- c. What do you mean by Histogram?
- d. If $\bar{X} = 40.59$, $Me = 40$ Find Z.
- e. What do you mean by Standard Deviation?
- f. If $r = 0.6$ and $N = 64$ of a distribution, find the Probable Error.
- g. Calculate coefficient of Skewness, if Mean = 59.5, SD = 10.4881 & Median = 55.7.

SECTION-B

Answer any Four of the following questions. Each question carries Five Marks. (4x5=20)

- 2. Explain the various methods used in collection of Primary data.
- 3. Represent the data by a suitable diagram. The table gives data relating to the Exports and Imports of a certain country X (Rs. In Lakhs) during the four years ending in 2018-2022.

Year	2018-19	2019-20	2020-21	2021-22
Export	320	340	345	310
Import	250	270	260	210

4. Calculate Arithmetic Mean from the following data

X	10-19	20-29	30-39	40-49	50-59	60-69
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f	15	16	28	28	14	9
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5. Calculate IQR, QD and its Coefficient from the following data.

Weight: 55 60 61 63 68 69 71 72 73 75

6. Calculate Rank correlation from the following data.

X	415	434	420	430	424	428
Y	332	330	331	328	327	325

SECTION-C

Answer any Two of the following questions. Each question carries Twelve Marks. (2x12=24)

7. Find out Mean, Median Marks from the following and by using empirical relationship calculate Mode.

Marks Less than	10	20	30	40	50	60	70	80
No. of Students	25	40	60	75	95	125	190	240

8. Find which company share prices are more variable.

X Co. Share Prices	55	61	73	76	77	81	83	86
Y Co. Share Prices	64	72	80	85	54	29	41	47

9. Calculate Karl Pearson's Coefficient of Correlation between Sales and Advertising Expenditure from the following data and interpret the value.

Sales (Rs. in Lakhs)	65	66	67	68	69	70	71	72	73
Advertising Expenditure (Rs. in '000)	66	67	64	67	71	69	70	68	70

SECTION-D

Answer any one of the following questions, which carries Six Marks.

(1x06=06)

10. Prepare a questionnaire for conducting a survey with regard to consumer satisfaction of a certain product.

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11. Collect marks scored by 50 students in an examination and prepare a frequency distribution table.

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