

UUCMS No.

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B.M.S COLLEGE FOR WOMEN, AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – MARCH/APRIL- 2023

B.B.A. – III Semester

STATISTICS FOR BUSINESS DECISIONS
(NEP Scheme 2021-22 onwards)

Course Code: BBA3DSC09
Duration: 2 ½ Hours

QP Code: 3026
Max. Marks: 60

Instructions: Answers should be written in English only.

SECTION -A

1. Answer any FIVE of the following questions. Each question carries TWO Marks.

(5X2=10)

- Define Statistics.
- Write any two demerits of Arithmetic Mean.
- Given Mean=21.76, Median=20.84 find Z
- What are the objectives of measures of dispersion.
- What do you mean by Positive skewness?
- In a certain distribution the following result were established Mean=45, Median=48 and $S_{kp} = -0.4$ find SD.
- Write about Partial correlation with example.

SECTION - B

Answer any FOUR of the following questions. Each question carries FIVE marks.

(4X5=20)

2. Compute 2 regression equations by taking deviations from actual mean of x and y series.

x	2	4	6	8	10
y	5	7	9	8	11

3. From the following data of marks obtained by 50 mathematic students, calculate Mean and Median.

Marks X	20	30	40	50	60	70	80	90
No. of Students	2	5	8	12	13	6	2	6

4. Explain the types of Correlation.

5. From the following table find correlation coefficient between age and percentage of players of students.

Age	16	17	18	19	20
% of players	70	50	40	30	10

6. Given the following calculate the value of N if $r = 0.61$, $PE = 0.1312$

SECTION – C

Answer any TWO of the following questions. Each question carries TWELVE marks.

(2X12=24)

7.a) ABC limited is conducting an activity to consider the following mutually exclusive projects for adoption. You are required to suggest the most risky project using coefficient of variation.

Year	Project X (Rs.in Lakhs)	Project Y (Rs.in Lakhs)
1	10	5
2	5	25
3	20	45
4	40	30
5	60	30

b) Calculate Mode from the following data

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. Of students	4	2	18	21	22	19	10	3	1

8.a) Write the 6 difference between Central tendency and dispersion.

b) Compute Standard deviation from the following data

X	10	20	30	40	50	60	70
f	5	11	19	22	15	6	2

9. Calculate Karl Pearson's coefficient of skewness for the following data

X	125	126	127	128	130	132	134	135	136
f	5	10	15	40	22	8	10	6	4

SECTION – D

Answer any ONE of the following questions carries SIX marks.

(1X6=06)

10. Present the following data in a sub-divided bar diagram

Year/faculty	Science	Humanities	Commerce	Total
2014-2015	240	560	220	1020
2015-2016	280	610	280	1170

11. Construct a blank of Statistical table with the following content.

Table number, Title, date, stub, caption, body of the table, head note, source foot note
