UUCMS. No. | | | | | | | | | | | | |

B.M.S COLLEGE FOR WOMEN
BENGALURU – 560004

III SEMESTER END EXAMINATION – JAN/FEB -2024

B.B.A. - STATISTICS FOR BUSINESS DECISIONS
(NEP Scheme 2021-22 Onwards)

Course Code: BBA3DSC09 **QP Code: 3026**
Duration: 2 ½ Hours **Max. Marks: 60**

SECTION-A

1. Answer any Five of the following questions. Each question carries Two Marks. (5X2=10)

a. What is Classification of data?
b. What is Co-efficient of Variation?
c. Calculate Arithmetic Mean: 6,8,7,2,0,3,11,10,10,1
d. If $\bar{X}$ = 12, Z= 13, what is Median?
e. What is Positive Correlation?
f. Write any 2 uses of Time Series.
g. What is Regression Analysis?

SECTION-B

Answer any Four of the following question. Each question carries Five Marks. (4X5=20)

2. In 2010, out of the total customers visiting a hotel, 750 were non-vegetarians and 1250 were vegetarians. In total there were 550 male non-vegetarian customers and 300 female vegetarian customers.
In 2011, the total number of customers increased by 25%. While non-vegetarian customers increased by 20%. In all there were 1700 male customers among whom 650 were non-vegetarians in 2011. Present the above information in a suitable statistical table.

3. Calculate Arithmetic Mean from the following data.

Height (cms)	0 - 10	10 - 20	20 - 30	30 – 40	40 – 50	50 - 60	60 - 70
No. of Students	2	4	6	8	10	12	14

4. Briefly explain the types of Skewness.
5. Compute 2 regression coefficients when r = 0.8, $\sum x = 5$, $\sum Y = 7$.
6. Briefly explain the components of Time series.

SECTION-C

Answer any Two of the following question. Each question carries Twelve Marks. (2X12=24)

7. The following table gives the age distribution of boys and girls in a school. Find which of the two groups is more variable in age.

Age	No. of Boys	No. of Girls
10	11	13
11	14	15
12	7	10
13	10	9
14	8	5
15	5	3

8. Find the regression equation for the following data and also product average value of Y, when X = 9

X	3	6	5	4	7	2	8	1
Y	3	2	3	5	3	6	6	4

9. Fit a straight line for the following data by the method of least Squares.

Year	2006	2007	2008	2009	2010	2011	2012
Production (in '000)	100	120	136	124	118	132	140

SECTION-D

Answer any One of the following questions, carries Six Marks. (1X6=6)

10. Prepare of blank tables mentioning the parts of the tables.
11. Compile the following data in percentage bar diagram-

Subjects	No. of Subjects	
	2020-21	2021-22
Mathematics	60	20
Economics	55	30
Statistics	85	50

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