35325

Reg. No. | | | | | | | | |

III Semester B.B.A. Degree Examination, March/April - 2023

BUSINESS ADMINISTRATION

Business Data Analysis

(CBCS Semester Scheme Repeaters 2019-20)

Paper : 3.6

Time : 3 Hours **Maximum Marks : 70**

***Instructions to Candidates*:**

Answers should be written completely in English only.

SECTION - A

Answer any Five of the following sub-questions. Each sub question carries 2 marks. **(5×2=10)**

1. a) Give the meaning of statistics.

b) What is standard deviation?

c) If $\overline{X}=12$, $Z=13$, Find median,.

d) What is probable error?

e) Find the correlation coefficient if two regression coefficients are 0.8 and 0.4.

f) Give the meaning of the term 'Probability'.

g) What do you mean by 'Hypothesis' testing?

SECTION - B

Answer any Three of the following questions. Each question carries 5 marks.(3×5=15)

2. The following table shows the result of BBA students of a university for last three years. Represent the data in Multiple Bar Diagram.

Year	I class	II class	III class	Failed
2019	60	160	260	163
2020	70	210	310	150
2021	60	260	360	160

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3. From the following information:
   a) Estimate the value of Y when X = 50
   b) Estimate the value of X when Y = 80

Variables	Mean	S.D
X	130	5
Y	134	4.95

r = 0.8

4. A sample of 400 boys was found to have a mean height of 67.47". Can it reasonably be regarded as a sample from the large population with in the mean height 67.39" and S.D is 1.30" (test at 5% significance level i.e 1.96).
5. Explain any five Probability sampling techniques.

SECTION - C

Answer any Three questions. Each question carries 15 marks. **(3×15=45)**

6. Calculate Mean and Median from the following.

Class Interval	Frequency
10-20	24
20-30	30
30-40	40
40-50	50
50-60	40
60-70	20
70-80	20
80-90	06

7. Find which of the Batsman is better run getter and who is more consistent?

Batsman 'A'	Batsman 'B'
101	97
22	12
0	40
36	96
82	13
45	8
7	85
3	8
65	56
14	16

8. Find the Pearson's Coefficient of correlation between X and Y.

X	Y
200	10
500	16
400	14
700	20
600	17
300	13

9. From the following information:-

a) Write two regression equations.

b) Estimate the value of Y when X is 46,

c) Estimate the value of X when Y is 74

d) Find Correlation Coefficient.

X	Y
40	20
48	24
52	28
68	36
72	52