35325

Reg. No. ☐☐☐☐☐☐☐☐

III Semester B.B.A Degree Examination, April - 2022
BUSINESS ADMINISTRATION
Business Data Analysis
(CBCS Scheme Freshers)
Paper: I

Time : 3 Hours   Maximum Marks : 70

Instructions to Candidates:

   Answers should be written completely in **Enlgish**.

SECTION - A

1. Answer any five sub questions of the following. Each sub question carries 2 marks.

    (5×2=10)

   a)   What is Inferential statistics?

   b)   Give two examples of secondary data.

   c)   List out any two uses of percentage bar diagram.

   d)   Given $n = 30$, $\sum xy = 244$, variance of x and y are 15 and 18 respectively. Compute the coefficient of correlation.

   e)   If $Y = 45$ and $Z = 48$, calculate $\overline{X}$.

   f)   What is probability?

   g)   Name the types of Hypothesis.

[P.T.O.

35325

SECTION - B

Answer any three of the following questions . Each question carries 5 marks.

(3×5=15)

2. Prepare a bivariate frequency table from the data of 20 students.

   Marks in Business Data: 10,10,11,11,12,12,12,12,13,13,13,14,14,14,14,14,14,15,15,15
   Analysis

   Marks in Accounting : 20,20,20,20,21,21,22,22,22,23,23,23,23,23,24,24,25,25,25,25,25

3. Two Judges were asked to rank eight contestants in a cooking competition, and the ranks
   are as follows

Contestants:	A	B	C	D	E	F	G	H
Judge X :	1	3	2	7	6	4	5	8
Judge Y:	2	1	4		6	7	3	5

   Calculate the rank co-efficient.

4. Given the following information, $\overline{X}=130, \overline{y}=134, \sigma x=5$, Variance of Y= 24.5 and
   correlational co-efficient = 0.8. Calculate.

   a)   The two regression lines.

   b)   The likely estimate of x when y = 80 and of y when x = 50

5. A sample of 50 provided a sample mean of 14.2 with standard deviation of 5. Test the
   hypothesis that the population mean is 15 against the alternative that it is not equal to 15.
   The cutoff Z value at 0.05 level of significance is 1.96.

SECTION - C

Answer any three of the following questions. Each question carries 15 marks.

(3×15=45)

6. Calculate mean and median from the following data.

More than :	10,	20,	30,	40,	50,	60,	70,	80
Frequency:	230,	206,	176,	136,	86,	46,	26,	6

7. Following are the runs scored by two Batsman A and B in 10 Matches. Find who is a better scorer and who is more consistent.

A: 111, 32, 10, 46, 92, 55, 17, 23, 75, 24

B: 107, 22, 50, 106, 23, 18, 95, 18, 66, 26

8. From the following data.

a) Calculate two regression lines

b) Estimate the value of x, when y = 74 and valve of y, when x = 46.

c) Compute the correlation co-efficient by using the two regression co-efficients.

X: 40, 48, 52, 68, 72

Y: 20, 24, 28, 52

9. What is sampling? Briefly explain the different methods of sampling.

———————————