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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 **English**.

SECTION - A

1. Answer any five sub questions of the following. Each sub question carries 2 marks. (5×2=10)

- What is Inferential statistics?
- Give two examples of secondary data.
- List out any two uses of percentage bar diagram.
- Given $n = 30$, $\sum xy = 244$, variance of x and y are 15 and 18 respectively. Compute the coefficient of correlation.
- If $Y = 45$ and $Z = 48$, calculate \bar{X} .
- What is probability?
- Name the types of Hypothesis.



[P.T.O.]



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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: 10,10,11,11,12,12,12,12,13,13,13,14,14,14,14,14,15,15,15
Analysis

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

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	8	6	7	3	5

Calculate the rank co-efficient.

4. Given the following information, $\bar{X} = 130$, $\bar{y} = 134$, $\sigma_x = 5$, 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



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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 value 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, 36, 52

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