



Nagarjuna Degree College
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Reg. No.

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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.]



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 : 20,20,20,20,21,21,22,22,22,23,23,23,23,23,24,24,25,25,25,25,25

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



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.
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