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BENGALURU
School of Law
Mid - Term Examinations - November 2024

Semester: III

Date: 04-11-2024

Course Code: BCL 2003

Time: 11.45am to 01.15pm

Course Name: Business Statistics

Max Marks: 50

Program: BCL

Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Qx2M=10M

- | | | | | |
|----------|--|---------|---------------|----|
| 1 | How is statistical analysis used in the legal field for case evidence and decision-making? | 2 Marks | Understanding | CO |
| 2 | What are the two types of statistics, and how do they differ in terms of their purpose and application in data analysis? | 2 Marks | Remembering | CO |
| 3 | Define the arithmetic mean. | 2 Marks | Remembering | CO |
| 4 | How do measures of dispersion, such as standard deviation, help in understanding the variability within a data set? | 2 Marks | Understanding | CO |
| 5 | Give formula for combined Arithmetic mean, considering three groups (n_1, n_2, n_3) | 2 Marks | Remembering | CO |

Part B

Answer ALL Questions. Each question carries 10 marks.

4QX10M=40M

- 6 Find Arithmetic Mean and Median of the following data. 10 Marks Remembering & Applying C02

Criminal Cases	No. of regions
20-25	10
25-30	20
30-35	20
35-40	15
40-45	15
45-50	20

Or

- 7 From the following data, calculate median and the first and third quartile wages (Q_1 & Q_3): 10 Marks Remembering & Applying C02

Daily Wages (in rupees)	(no. of workers)
30-32	2
32-34	9
34-36	25
36-38	30
38-40	49

- 8 Calculate the mean and Standard Deviation from the following data: 10 Marks Remembering & Applying C03

Marks	No. of students
0-10	10
10-20	15
20-30	25
30-40	25
40-50	10
50-60	10
60-70	5

Or

- 9 From the data given below, calculate Karl Pearson's coefficient of skewness:

10
Marks

Remembering & C03
Applying

Class interval	frequency
70-80	12
80-90	18
90-100	35
100-110	42
110-120	50
120-130	45
130-140	20
140-150	8

- 10 The number of cases disposed off by two high court judges are as given below. With the help of 'Coefficient of Variation' (CoV) , state which judge has been more consistent.

10
Marks

Remembering & C04
Applying

Judge A	Judge B
85	72
20	4
62	15
28	30
74	59
05	15
69	49
04	27
13	36

Or

- 11** Share Prices of TATA motors and Mahindra were recorded. Which company's share prices are more variable?

10
Marks

Remembering & C03
Applying

TATA motors	Mahindra
12	113
13	114
15	113
14	115
14	117
14	114
13	112
17	114

- 12** Calculate Q1, Q3 and Coefficient of Quartile Deviation of the following data

10
Marks

Remembering & C03
Applying

Weight (in kg)	No. of students
60-62	5
63-65	18
66-68	42
69-71	27
72-74	8

Or

- 13** Find the missing frequency, if total frequency is 120.

10
Marks

Remembering & C01
Applying

Class	Frequency
0-20	17
20-40	F_1
40-60	32
60-80	F_2
80-100	19