

No. of Printed Pages : 3 **BCSL-044(Set-I)**

**BACHELOR OF COMPUTER
APPLICATIONS (BCA)**

Term-End Practical Examination

December, 2024

**BCSL-044(Set-I) : STATISTICAL TECHNIQUES
LAB**

Time : 1 Hour

Maximum Marks : 50

Note : (i) *There are **two** compulsory questions in this paper, each of 20 marks. Rest 10 marks are for viva-voce.*

(ii) *Use any spreadsheet package for solving the problem.*

(iii) *For programming, if asked, you may use any C/C++ compiler.*

1. The number of cash withdrawals from ATM machine were recorded for 20 customers. The following data represents this information :

Number of ATM withdrawal by a customer
(per year)

25	50	35	10	25
36	15	80	40	24
21	29	65	5	7
31	26	11	7	8

Perform the following tasks for the data given
above :

$$8+4+4+4=20$$

- (a) Enter the data in a spreadsheet package and create a frequency distribution in 4 different intervals. You may use array formula for finding the distribution.
- (b) Draw the histogram of the data.
- (c) Find the mean and standard deviation for the data.
- (d) Find the cumulative frequency distribution for the frequency distribution created in part(a).

[3]

2. Given the following data of Air Quality Index (AQI) for the first 12 days of the month of November : 20

Day	AQI
1	100
2	120
3	100
4	90
5	80
6	70
7	90
8	110
9	120
10	150
11	110
12	90

Find the moving averages of length 3 and length 5. Plot these moving averages using a spreadsheet software.

× × × × × × ×