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

BACHELOR OF COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination December, 2024

BCSL-044(Set-II): 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 problems.
 - (iii) For programming, if asked, you may use any C/C++ compiler.
- 1. The age of 20 students of an Open University BCA program was recorded. This data is given in the following table:

[2]

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Age of Students (in completed years)

18	25	35	17	21
27	29	20	18	17
24	23	22	21	20
29	27	33	31	23

Perform the following task for the data given above: 8+4+4+20

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

2. A group of 400 patients were subjected to a new medicine as per the following details: 20

Categories	Recovered	Did not recover	Total
Patients given new medicine	150	50	200
Patients not given any medicine	125	75	200
Total	275	125	400

Use the Chi-square test to determine if the medicine has helped patients to recover. Explain your results. Make suitable assumptions, if any.