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

BACHELOR OF COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

December, 2024

BCSL-044(Set-IV) : 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. Height of class X students of a school was recorded in the following table :

Height (in cms)

147	125	135	145	120
131	160	110	115	127
161	171	151	131	111
105	109	169	142	133

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

(a) Enter the data in a spreadsheet and create the frequency distribution in 5 equal intervals. Use array formula for creating the frequency distribution.

(b) Draw the histogram for the data.

(c) Find the mean and standard deviation of the data.

(d) Find the cumulative frequency distribution for the frequency distribution obtained in part (a).

2. Consider the following data of speed of car and its milage :

Speed (km/hrs.)	Milage (km/litre)
10	8
15	10
20	11
25	12
30	13
35	13
40	14
45	15

(a) Draw the scatterplot for the given data using a spreadsheet software. 10

(b) Fit the best linear regression line for the above data, taking speed as independent variable. Using this regression line, predict the milage at the speed of 50 km/hr. 10

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