BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED) Term-End Practical Examination June, 2025

BCSL-044(Set-IV) : STATISTICAL TECHNIQUES LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two compulsory questions in this paper. Each question carries 20 marks. Rest 10 marks are for viva-voce.*

(ii) Use any spreadsheet software for solving the problem. For programming (if asked), you may use any C/C++ compiler.

1. A business organisation allows work-from-home to its employees. Following is the data of its 20 employees for the last month :

Work from home (Number of days)

7	1	25	5	9	12	8	6	3	2
6	7	10	11	8	7	9	6	4	7

Perform the following tasks for the data given above :

(a) Enter the data in a spreadsheet software and create a frequency distribution in 5 equal intervals. You may use array formula for finding this distribution.   8

(b) Draw the histogram of the data and find outlier in the data, if any.   4

(c) Find the mean and variance of the data.   4

(d) Find the minimum and maximum from the data using spreadsheet formulas/ function.   4

2. The following table shows the data of years of experience and salary of managers :

Number of years experience	Salary (₹/month)
10	25,000
15	30,000
7	20,000

20	35,000
5	18,000
12	26,000
8	21,000
11	26,000

Perform the following tasks for the data given above :

(a) Draw the scatter plot for the given data using a spreadsheet software. 8

(b) Find the best linear regression line assuming number of years of experience as independent variable. Is this line a good fit ? Explain your answer. 12

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