

**BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)**

Term-End Practical Examination

June, 2015

00073

BCSL-044(P)/S3 : STATISTICAL TECHNIQUES LAB

Time : 1 Hour

Maximum Marks : 50

- Note :**
- (i) *There are **two compulsory** questions in this paper of 20 marks each. Rest 10 marks are for viva-voce.*
 - (ii) *Use any spreadsheet package. For programming (if asked) you may use any C/C++ compiler.*

- 1.** The average temperatures of 20 different locations were recorded in a table. This data is as follows :

(Temperature in °C)

35	11	2	17	40
25	17	29	33	37
15	19	28	38	31
18	24	27	35	40

Perform the following tasks for the data given above :

8+4+4+4=20

- (a) Enter the data in a spreadsheet and create a frequency distribution in the ranges : below 5°C; 6° to 15°C; 16° to 25°C; 26° to 35°C; 36° to 45°C; above 45°C. Use array formula for finding the frequency distribution.
- (b) Draw the histogram of the data.
- (c) Find the mean and standard deviation for the data using spreadsheet formulae/functions.
- (d) Find the minimum and maximum temperature using spreadsheet formulae/functions.

2. To find a relationship between age and height, an NGO collected the following data :

Age in years	Height in cms
9	135
7	127
3	100
5	125
6	120
8	137
2	95
7	135

- (a) Construct a scatter plot (diagram) for the given data using a spreadsheet package.
- (b) Find the best linear regression line assuming that age is the dependent variable and height is the independent variable. $10+10=20$
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