

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

Term-End Practical Examination

December, 2014

02034

BCSL-044(P)/S1 : STATISTICAL TECHNIQUES LAB

Time : 1 Hour

Maximum Marks : 50

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

1. In a locality the number of family members for a sample of 20 families was recorded. This data is as follows :

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

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 : less than 3; 3 – 4; 5 – 6; 7 – 8; 9 – 10; more than 10. Use array formula for finding the frequency distribution.
- (b) Draw the histogram for the data.
- (c) Find the mean and standard deviation of the data using spreadsheet formulae.
- (d) Find the minimum and maximum number of family members using spreadsheet formulae.

2. A group of 8 students were given a reading lesson. The following table shows their speed of reading before and after the lesson :

Before (in words/minute)	20	15	17	11	18	10	19	21
After (in words/minute)	25	11	16	15	21	12	17	24

Using t-test with a significance level of 5%, can you say that the lesson was a success ? Clearly write H_0 and H_1 and explain your results.

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