

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

**Term-End Practical Examination**

**June, 2015**

**BCSL-044(P)/S2 : 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 solving the problems. For programming (if asked) you may use any C/C++ compiler.

1. The heights of 20 students of Class 10 of a school are given below :

(Heights in cms)

175	152	153	159	165
161	179	150	147	165
167	180	158	157	165
171	170	167	161	156

Perform the following tasks for the data given above :

8+4+4+4=20

- (a) Enter the data in a spreadsheet software and create a frequency distribution in the ranges : less than 150 cms; 151 – 160 cms; 161 – 170 cms; 171 – 180 cms; more than 180 cms. Use array formula to create the frequency distribution.
- (b) Draw the histogram of the data.
- (c) Find the mean and variance for the data using spreadsheet formulae.
- (d) Find the minimum and maximum height using spreadsheet formulae.

2. A new fertilizer was being tested on a group of plants. The results are tabulated in the following table :

Categories	Shows growth	No growth at all	Total
Given fertilizer	275	75	350
Not given fertilizer	150	250	400
Total	425	325	750

Use chi-square test to determine if giving fertilizer has any effect on the growth of the plants. Explain your results. Make suitable assumptions, if any.

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