

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

Term-End Practical Examination

04031

June, 2013

BCSL-044 : STATISTICAL TECHNIQUES LAB

Time allowed : 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 marks obtained by 20 students in an entrance examination out of 100 are :

8+4+4+4=20

60	50	75	25	80
35	85	60	65	95
31	91	71	68	25
30	62	73	77	64

Perform the following tasks for the data as above

- (a) Enter the data in spreadsheet package and create a frequency distribution in the ranges like 0-10, 11-20, 21-30.....91-100, using array formula.
 - (b) Draw the histogram for the data using spreadsheet package.
 - (c) Find the mean and standard deviation of the data using spreadsheet.
 - (d) Find the minimum and maximum scores using spreadsheet formula.
2. The pulse rate of 6 people were recorded before and after taking a new drug :

20

Before	69	72	67	75	80	79
After	70	68	68	71	72	75

Using t-test and a significance level of 10%. Can you say that the drug causes significant decrease in pulse rate. You must clearly write H_0 and H_1 and explain your results.