SET - 1

BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Revised)

00391

Term-End Practical Examination
December, 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 semester end examinations out of 200 are :

     175   100   80   180   150   8+4+4+4=20

     60   95   120   135   190

     115   90   160   117   131

     129   20   37   75   129

Perform the following tasks for the data given above :

(a)   Enter the data in a spreadsheet package and create a frequency distribution in the range 0-20, 21-40, 41-60,..........181-200, using array formula.

(b)   Draw the histogram for the data.

(c)   Find the mean and standard deviation of the data using spreadsheet.

(d)   Find the minimum and maximum scores using spreadsheet formula.

2.   The sugar level of 6 patients were recorded before and after taking a new drug :   20

Before	130	200	100	95	125	150
After	95	120	99	90	100	110

Using t-test and a significance level of 5% can you determine if the new drug causes significant reduction in sugar level. You must write H_0 and H_1 clearly and explain your results.