BACHELOR OF COMPUTER APPLICATIONS (Revised) (BCA)

Term-End Practical Examination

December, 2014

00924

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.
- (ii) Rest 10 marks are for viva-voce.
- (iii) Use any spreadsheet package.
- (iv) For programming (if asked) you may use any C/C++ Compiler.
- 1. The age of 20 employees of an organisation is given below in years:

21	51	41	37	60
35	25	45	49	55
65	24	29	34	38
63	19	22	29	36

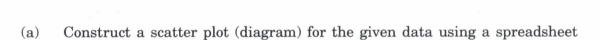
Perform the following tasks for the data given above :

8+4+4+4=20

- (a) Enter the data in a spreadsheet package and create a frequency distribution in the ranges: less than 20; 21-30; 31-40; 41-50; 51-60; more than 60. Use array formula to perform this task.
- (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 age using spreadsheet formulae/functions.

2. To find the relationship between monthly cost to monthly production, a company collected the following data : 10+10=20

Product Output (in tons)	Production Cost (in Rupees)	
3	5,000	
7	7,000	
4	5,000	
6	5,000	
8	6,000	
2	3,000	
5	4,000	
6	5,000	



⁽b) Find the best linear regression lines assuming that product output is the dependent variable and the monthly cost is the independent variable.

package.