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BCSL-044(P)/S3

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

(a) Construct a scatter plot (diagram) for the given data using a spreadsheet package.

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