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BCSL-044(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

Term-End Practical Examination

June, 2018

00199

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. 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.

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1. A company studied the average time of changing a mobile. The following table shows this data :

Time (in months) for change of mobile

27	22	08	16	31
22	17	12	11	25
14	15	26	19	17
13	08	12	16	45

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 5 equal intervals. Use array formula for finding the frequency distribution.

(b) Draw the histogram of data. List all the outliers in the data.

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

(d) Remove all the outliers from the data and find the mean again. Also find the median of the entire data.

2. Waterproofing of several houses was done from a group of houses to determine effectiveness of waterproofing. The following table shows the data :

Categories	Houses with waterproofing	Houses without waterproofing	Total
Leakage in House	30	200	230
No leakage in House	120	150	270
Total	150	350	500

Use chi-square test to determine if the waterproofing treatment was of any use or not. Explain your results. Make suitable assumptions. *20*