

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

02009

Term-End Practical Examination

December, 2015

BCSL-044(P)/S1 : STATISTICAL TECHNIQUES LAB

Time : 1 Hour

Maximum Marks : 50

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- Note :** (i) There are two **compulsory** questions of 20 marks each. Rest 10 marks are for viva-voce.
- (ii) Use any spreadsheet package for implementation. For programming (if asked), you may use any C/C++ compiler.
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1. The life of a sample of 20 computer disks in number of days were recorded. The following table shows this data :

(Life of computer disks in number of days)

1025	897	795	1205	760
875	1000	1111	987	795
899	975	825	1099	1050
859	1075	1175	1125	1011

Perform the following tasks for the data given above :

8+4+4+4=20

- (a) Enter the data in a spreadsheet and create a frequency distribution in the ranges : less than 750; 751 – 850; 851 – 950; 951 – 1050; 1051 – 1150; 1151 – 1250; and more than 1250. Use array formula for finding the frequency distribution.
- (b) Draw the histogram of the data.
- (c) Find the relative frequency of the frequency distribution obtained in part (a).
- (d) Find the mean and standard deviation of the data using spreadsheet formula.

2. A group of 8 typists were given a crash course in typing. The following table shows their typing speed before and after the course :

Typing Speed in characters typed per minute

Before the Course	40	21	81	62	18	60	31	35
After the Course	42	29	79	62	25	61	34	36

Using t-test with a significance level of 5%, can you say that the crash typing course has helped in developing significant increase in typing speed ? Clearly write H_0 and H_1 and explain your result. Make suitable assumptions, if any. 20
