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BCSL-044(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

00674

Term-End Practical Examination

December, 2014

BCSL-044(P)/S2 : 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. Total score obtained by 20 students in a personality test of 100 marks are given below :

37	75	71	65	52
21	93	05	15	44
72	64	69	84	81
95	55	47	67	79

Perform the following tasks for the data given above : *8+4+4+4=20*

(a) Enter the data in a spreadsheet software and create a frequency distribution in the ranges : less than 10; 10 – 24; 25 – 39; 40 – 54; 55 – 69; 70 – 84; 85 – 99; more than 99. Use array formula to create the frequency distribution.

(b) Draw the histogram of the data.

(c) Find the mean and variance for the data using spreadsheet formulae.

(d) Find the minimum and maximum marks using spreadsheet formulae.

2. XYZ Healthcare collects the following data from its patients which were in the age group of 60 – 70 years :

Categories	Living	Dead	Total
Given treatment using alternative medicine	300	120	420
Not given any treatment	100	240	340
Total	400	360	760

Use chi-square test to determine if giving alternative medicine has any effect on curing the disease. Explain your results. *20*