BACHELOR OF COMPUTER APPLICATIONS (Revised) (BCA)

Term-End Practical Examination

June, 2016

00558

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.*

1. The average systolic blood pressure of 20 persons sample was recorded. It is given in the following table :

Blood Pressure

120	100	90	160	130
140	125	150	155	145
95	105	85	88	99
128	125	130	127	115

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 8 equal ranges. Use array formula for finding the frequency distribution.

(b) Draw the histogram of the data.

(c) Find the relative frequency distribution for the frequency distribution obtained in part (a).

(d) Find the mean and standard deviation for the data using spreadsheet formula.

2. To find the relationship between sales and price of various mobile devices, an organisation collected the following data :

Sales (in thousands)	Price (in ₹)
10	15,000
25	9,000
9	25,000
10	30,000
35	12,000
8	5,000
5	2,000
7	4,000

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

(b) Find the best linear regression line assuming that price is an independent variable and sales is a dependent variable. Is this line a good fit ? Explain.

10+10=20