No. of Printed Pages : 3

BCSL-044/S2

Bachelor of Computer Application (Revised) (BCA) Term-End Examination December, 2018

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 for solving the problems.

(iv) For programming (if asked), you may use any C/C++ compiler.

---

1. Electricity Consumptions of several households were recorded as the following sample data : (8 + 4 + 4 + 4 = 20)

Electricity Consumption per month (in units)				
250	500	1000	300	200
600	350	400	450	525
535	432	235	285	295
322	461	383	273	385

(a) Enter the data in a spreadsheet software and create a grouped frequency distribution in 4 equal intervals. Use array formula for finding the frequency distribution.

(b) Draw the histogram of the data and find if there is any outlier in the data.

(c) Find the mean and median of the data.

(d) Remove the outlier and once again find the mean and median. Explain the difference in the two means calculated in (c) and (d).

2. Consider the following monthly data of average household expenditure on milk products of a person :

Month	Average Expenditure on Milk Products (INR)
January	3000
February	2500
March	2000
April	2100
May	4000
June	5000
July	3200
August	3100
September	3500
October	2000
November	3000
December	3100

(a) Draw the bar chart for the data. 5

(b) Find the moving average of length 3 and plot the moving averages using spreadsheet. 15