

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

Term-End Practical Examination

01505

June, 2017

BCSL-044(P)/S2 : STATISTICAL TECHNIQUES LAB

Time : 1 Hour

Maximum Marks : 50

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- 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. Salary of 20 different persons of a city was recorded in the following table :

Monthly Salary in INR				
75,000	10,000	6,000	71,000	15,000
85,000	35,000	25,000	15,000	17,000
27,000	45,000	57,000	67,000	74,000
38,000	49,000	59,000	61,000	63,000

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 5 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.

2. To find a relationship between infrastructure availability level and number of industries, the following data was collected :

Infrastructure Availability Level (1 – 10) (1-minimum, 10-maximum)	No. of Industries in that town
5	27
1	11
9	39
10	45
6	27
3	15
8	35
7	30

- (a) Draw a scatter plot for the given data using a spreadsheet package.
- (b) Find the best linear regression line assuming that number of industries is a dependent variable and infrastructure availability level is an independent variable. Is this line a good fit ? Explain. *10+10=20*