

**BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)**

Term-End Practical Examination

December, 2017

00042

BCSL-044(P)/S4 : 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 implementation. For programming (if asked), you may use any C/C++ compiler.*
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1. A sample of 20 mobiles were studied for their battery life. The following table shows the data :

Battery Life (mAh)				
4500	1900	1000	1200	4000
3600	2500	3200	800	900
4000	2000	1700	1600	4100
2100	1900	1600	1300	1200

Perform the following tasks for the data given above :

8+4+4+4=20

- (a) Enter the data in a spreadsheet package and create a frequency distribution in 5 equal intervals. Use array formula for finding the frequency distribution.
- (b) Draw the histogram of the data.
- (c) Find the mean and variance of the data.
- (d) Find the maximum and minimum values in the data using spreadsheet functions.

2. Rust treatment was given to a random number of cars from a group of 400 cars. The following table shows the data :

Categories	Cars which got rusted	Cars which did not get rusted	Total
Cars given rust treatment	50	160	210
Cars not given rust treatment	70	120	190
Total	120	280	400

Use chi-square test to determine if the rust treatment was of any use or not. Explain your results. Make suitable assumptions.

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