BCSL-044 (Set-2)

BACHELOR OF COMPUTER APPLICATIONS
BCA (REVISED)
Statistical Techniques Lab

Duration : 1 hour   Maximum Marks : 50

Note : 1.   There are two compulsory questions in this paper, each of 20 marks.

2.   Rest 10 marks are for viva-voce.

3.   Use any spreadsheet package for solving the problem.

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

1.   The following table shows the data collected under the study conducted to determine, whether higher education leads to managerial job.   20

Categories	Working as Manager	Not Working as Manager	Total
No Higher Education	100	700	800
Higher Education	823	377	1200
Total	923	1077	2000

Use chi-square test to verify "Higher education leads to managerial job". Explain your results. Make suitable assumptions (if any).

2. Following data shows battery life (in mAH) of 20 mobile phones)

(8+4+4+4)

Battery Life (mAH)

4500	1900	1000	1200	4000	3600	2500	3200	800	900
4000	2000	1700	1600	4100	2100	1900	1600	1300	1200

Referring to the data given above, perform the following:

(a) Enter the data in a spreadsheet package and create frequency distribution in 5-equal intervals. Use array formula for finding the frequency distribution.

(b) Draw histogram of the data.   20

(c) Find mean and variance of the data.

(d) Find maximum and minimum values in the data using spreadsheet functions.

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