

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

00028

Term-End Practical Examination

June, 2016

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 departmental store recorded the price of different Rice brands into the following table :

| Price in ₹ (for 5 kg Rice) | | | | |
|----------------------------|-----|-----|-----|-----|
| 520 | 250 | 125 | 750 | 200 |
| 350 | 450 | 175 | 215 | 315 |
| 425 | 495 | 375 | 265 | 490 |
| 180 | 195 | 395 | 599 | 699 |

Perform the following tasks for the data given above :

8+4+4+4=20

- (a) Enter the data in a spreadsheet package and create frequency distribution in 8 equal ranges. You may use array formula for finding this distribution.
- (b) Draw the histogram of the data.
- (c) Find the mean and standard deviation for the data using spreadsheet formula.
- (d) Find the relative frequency distribution for the frequency distribution created in part (a).

2. Consider the following rainfall data from January to December in a city :

| Month | Rainfall in mm |
|-------|----------------|
| 1 | 5 |
| 2 | 10 |
| 3 | 5 |
| 4 | 7 |
| 5 | 2 |
| 6 | 30 |
| 7 | 200 |
| 8 | 160 |
| 9 | 80 |
| 10 | 20 |
| 11 | 10 |
| 12 | 5 |

Find the moving averages of length 4 and 5. Plot these moving averages using a spreadsheet software.

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