No. of Printed Pages: 1

MMTE-003 (P)

M.Sc. (MATHEMATICS WITH APPLICATIONS IN COMPUTER SCIENCE) M.Sc. (MACS)

Term-End Practical Examination

00381

June, 2014

MMTE-003 (P): PATTERN RECOGNITION AND IMAGE PROCESSING

Time: $1\frac{1}{2}$ hours

Maximum Marks: 40

Note: This question paper has **two** questions worth 30 marks. Remaining 10 marks are for the viva-voce. Sci-lab is to be used.

- 1. Load an image of size 512×512 and carry out edge detection in both directions (Horizontal and Vertical) using
 - (i) Sobel operator.
 - (ii) Roberts operator.

Do not use inbuilt commands. Use the corresponding masks and then carry out edge detection.

15

- 2. Restore the above image using
 - (i) Wiener filter.
 - (ii) Median filter.

15