00460

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

Term-End Practical Examination

June, 2016

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

Time: 1½ hours

Maximum Marks: 40

20

10

Note: This question paper has two questions worth 30 marks.

Remaining 10 marks are for viva-voce. Sci-lab is to be

used.

- Load an image in Sci-lab. Choose a blurring function to blur this image and add noise to the blurred image. Now try to restore this image using
 - (a) Wiener filter
 - (b) Median filter

Comment on the result.

2. Load an image in Sci-lab. Find its discrete cosine transform. Construct the amount of compression achieved when the image is reconstructed with 50% coefficients only.