M.Sc. (Mathematics with Applications in Computer Science) Term End Examination December 2020

MMTE-003(P), Pattern Recognition and Image Processing

Time allowed: 1½ hours

Maximum Marks 40

Note:

- 1) The question paper has two questions worth 40 marks each. Attempt both of them.
- 2) Write scilab programme in your answer booklet.
- 1) Load a blur Image and restore it using
 - a) Wiener filter
 - b) Median filter
- 2) Load an Image. Blur the image using Gaussian averaging and add exponential noise to it. (20)

(20)

- a) estimate degradation and noise from distorted Image.
- b) Find the mean-square-error (MSE) and signal to noise ratio (SNR) of each image.