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

M.Sc. (MACS)

Term-End Practical Examination

00118

December, 2017

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

Time : $1\frac{1}{2}$ hours   *Maximum Marks : 40*

Note :   *(i)*   *This question paper has two questions worth 30 marks. Remaining 10 marks are for the viva-voce.*

      (ii)   *Use Sci-lab and do **not** use in-built commands.*

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1. Write a program for the following geometric transformations of any image :   *15*

   (a) Translation

   (b) Scaling

   (c) Rotation

2. Write a program to perform the following operations on images :   *15*

   (a) Subtract one image from the other.

   (b) Calculate mean value of an image.

   (c) Calculate negative of an image.