190641

MMTE-004(P)

No. of Printed Pages: 2

M. Sc. (Mathematics with Applications in Computer Science) M. Sc. (MACS) Term-End Examination December, 2018

COMPUTER GRAPHICS

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

Maximum Marks: 40

Note: (i) There are *two* questions in this paper, totalling 30 marks.

- (ii) Answer both questions.
- (iii) Remaining 10 marks are for viva-voce.

- Write a 'C' program to generate and display English letters 'M' and 'Q' with regular font type and italic font type using:
 - (i) bitmap method
 - (ii) outline method.
- 2. Write a 'C' program to implement the flood fill algorithm to fill a closed area given by the equation $4x^2 + y^2 4 = 0$ in the xy-plane.