

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

**M.Sc. (MACS)**

**Term-End Practical Examination**

00273

**December, 2015**

**MMTE-004(P) : COMPUTER GRAPHICS**

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

*Maximum Marks : 40*

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

(ii) Answer **both** questions.

(iii) Remaining 10 marks are for the viva-voce.

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1. Write a 'C' program to implement the boundary fill algorithm to fill a closed area given by the equation  $x^2 + y^2 + 6x - 10y + 9 = 0$  in the xy-plane. 15
  2. Write a 'C' program to generate a composite matrix for a 3D rotation matrix. Test your code and rotate continuously a cube of side 7 cm about the z-axis. 15
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