

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

M.Sc. (MACS)

Term-End Practical Examination

00163

June, 2015

MMTE-004(P) : 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 the viva-voce.*
-

1. Write a 'C' program to draw an alphabet 'R' with regular font type and italic font type using multiple Bezier curves. Use an appropriate transformation to convert the italic font type into regular font type. 15

2. Write a 'C' program to implement Liang Barsky line clipping algorithm to clip the line segment starting from (-13, 5) and ending at (17, 11) against a window having its lower left corner at (-8, -4) and upper right corner at (12, 8). 15