

**M.Sc. (Mathematics with Applications in Computer
Science)**

Term End Examination

December 2020

MMTE-004(P) : Computer Graphics

Time allowed: 1½ hours

Maximum Marks: 40

Note: The question paper has two questions worth 20 marks each. Attempt both of them.

- 1) Write a program in 'C' language to draw alphabets 'R' and 'Q' with regular font type and italic font type using multiple Bezier curves. Use an appropriate transformation to get the italic font type from the regular font type. (20)
- 2) Write a program in 'C' language to implement Liang Barsky line clipping algorithm to clip the triangle with vertices (0, 0), (4, 5) and (6, 1) against a window having its lower left corner at (-2, -3) and the upper right corner at (3, 7). (20)