



Malaviya National Institute of Technology Jaipur  
Department of Computer Science Engineering  
**Computer Graphics Lab CSL310**  
End-sem Evaluation, Date: April 25, 2024

Spring 2024, VI Semester

Max marks: 10

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**All questions are mandatory. You can use Google Search to look up syntax, but not AI tools like ChatGPT.**

1. (a) Implementation of Curve generation using B-spline and Bezier curves.  
References: [https://sadbhawnathakur.github.io/data/CG/20.\\_Bezier\\_Curves.pdf](https://sadbhawnathakur.github.io/data/CG/20._Bezier_Curves.pdf)  
[https://sadbhawnathakur.github.io/data/CG/21.\\_Bspline\\_Curves.pdf](https://sadbhawnathakur.github.io/data/CG/21._Bspline_Curves.pdf)  
(5)
  
- (b) Write a Python function to implement the Cohen-Sutherland line clipping algorithm for clipping a line segment against a rectangular clipping window. The function should take the endpoints of the line segment and the coordinates of the clipping window as inputs, and return the clipped line segment, if any.  
Reference: [https://sadbhawnathakur.github.io/data/CG/16.\\_Clipping\\_Lines\\_and\\_Polygons.pdf](https://sadbhawnathakur.github.io/data/CG/16._Clipping_Lines_and_Polygons.pdf)  
(5)

**\*\*\*Best wishes\*\*\***