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BT-6 / M-18 COMPUTER GRAPHICS

Paper-IT-356

Time allowed: 3 hours!

[Maximum marks: 100

Note: - Attempt five questions in all selecting at least one question from each unit. All questions carry equal marks.

Unit-I

- (a) Explain the working of following color display techniques:
 - Beam penetration CRT
 - Shadow mask CRT
 - Write and explain the Bresenhem's circle drawing algorithm.
- (a) Compare and contrast the CI:T and plasma panel display device. Also highlight the merits and demerits of each display system.
 - What is the difference between simple DDA and symmetrical DDA? Explain using suitable example.

Unit-II

- What do you understand by clipping? Explain the midpoint subdivision algorithm for clipping.
 - (b) Explain the Sutherland-Hodgeman polygon clipping algorithm.
- Write Liang-Barsky algorithm for line clipping and compare its efficiency with Cohen-Sutherland line clipping algorithm.

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Unit-III

- What do you understand by transformation? Prove the assertion that the transformation of a line between two points A and B is equivalent to the line between the transform of A and transform of B. Consider only the scaling, rotation, and translation transformations.
- What is the difference between orthographic projection and oblique projection? Explain.

Unit-IV

- What is Bezier curve? Also specify the properties of Bezier curves.
- What do you understand by hidden surface elimination? Explain the depth-buffer algorithm for hidden surface elimination. Also discuss the limitations of depth-buffer algorithm.

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