

END TERM EXAMINATION

FIFTH SEMESTER [BCA] JANUARY-FEBRUARY 2023

Paper Code: BCA-303

Subject: Computer Graphics

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q. No. 1 which is compulsory. Select one question from each unit.

Answer the following questions:-

(2.5×10=25)

- Q1
- Differentiate Quadtrees and Octrees.
 - Differentiate U and U* operators.
 - Consider a Raster scan system with the resolution of 1280 by 1024. What size of frame buffer is needed (in Kilo Bytes) if 12 bits per pixel are to be stored?
 - What do you mean by scan conversion? Give examples of algorithms used for scan conversion of a circle.
 - What is antialiasing? What are various techniques for antialiasing?
 - What is the need of Hidden surface removal algorithms?
 - What are various anomalies associated with Perspective projection?
 - Differentiate interpolation and approximation methods for spline representation.
 - What are various desirable properties for a solid representation?
 - What do you mean by the statement "Translation and Rotation are rigid body transformations"?

UNIT-I

- Discuss Bresenham's approach for scan converting a line. (6)
- Compute the intermediate points from (0,0) to (5,10) on a line using Bresenham's approach. (6.5)

- Discuss Midpoint subdivision line clipping algorithm with example. (6)
- Discuss Conceptual Framework for interactive graphics. (6.5)

UNIT-II

- Discuss various basic 2D transformations in detail with their matrices. (6)
- What is the need of representing transformations as Homogeneous coordinates? List various basic transformation matrices after conversion to Homogeneous coordinates? (6.5)

- Discuss Window to Viewport transformation in detail. (6)
- Reflect the triangular polygon whose vertices are A(-1,0), B(0,-2) and Q(1,0) about the line $Y = X + 2$. (6.5)

UNIT-III

- What are various methods for Polygon Mesh representation? (6)
- What do you mean by Blending function? Prove that the blending function of open uniform B Spline is equal to that of Bezier curve for $d = n+1$ (where n is number of control points and d is degree). (6.5)

P.T.O.

BCA-303

P/2

Engineering Science Nquestion Paper 24

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