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## **MAY 2007**

### **CS-309**

# COMPUTER GRAPHICS

(B.Tech Semester - 5th)

Time: 03 Hours

Maximum Marks: 60

Note: - Section - A is compulsory. Attempt any Four questions from Section - B. Attempt any two questions from Section-C.

SECTION - A

Marks: 2 Each

- Q1 a) What is scan conversion?
  - b) List the different types of clippings.
  - c) What do you understand by surface rendering?
  - d) What are Bezier curves?
  - e) Why are transformations required?
  - f) What is translation of an object?
  - g) What is a Perspective view?
  - h) Define the term rotation in three Dimension.
  - i) What are the various components of LCD?
  - j) What is Z-buffer?

### **SECTION - B**

Marks: 5 Each

- Q2. What do you mean by B-Spline Curves? Discuss their application in computer Graphics.
- Q3. Describe in detail Breshenham's Line drawing Algorithm.
- Q4. List all the applications of Computer Graphics?
- Q5. What do you mean by Raster Scan System? Explain the working of color CRT monitor,
- Q6. Explain the scan line method for visible detection

### SECTION - C

Marks: 10 Each

- Q7. What are windowing and clipping? Explain Sutherland-Hodgman algorithms for clipping a polygon.
- Q8. Explain in detail the phong shading technique.
- Q9. What are projections? Explain different types of projections.

