

B.E. Seventh Semester (Computer Science & Engineering) (CGS)
10344 : Elective - I : Computer Graphics
7 KE / 7 KS 05

P. Pages : 2

Time : Three Hours



AU - 2894

Max. Marks : 80

- Notes :
1. Assume suitable data wherever necessary.
 2. Illustrate your answer necessary with the help of neat sketches.
 3. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain various graphic function. 7
- b) Explain the working of plasma panel display. 7

OR

2. a) Explain the following input devices. 9
 - i) Joystick
 - ii) Digitizers
 - iii) Image scanners
- b) Explain in brief, use of voice system. 5
3. a) Write a routine to implement following function. 6
 - i) Text function.
 - ii) Poly-marker function.
- b) Explain the DDA algorithm and its working. 7

OR

4. a) Explain in brief Boundary fill algorithm. 7
- b) How characters are generated? What are different type of fonts. 6
5. a) Explain in Brief. 9
 - i) Fill styles
 - ii) Pattern fill
 - iii) Soft fill
- b) Explain in brief Gray scale. 4

OR

6. a) What do you mean by antialiasing? Explain in detail. 7
- b) What are basic attribute of straight line segment? Explain any one of them. 6
7. a) Explain Liang-Barsky line clipping. 7

- b) Explain reflection and shear in transformation. 7

OR

8. a) Explain the following. 6
i) Affine transformation.
ii) Raster ops
iii) View up vector.
- b) What do you understand by clipping? Explain polygon and curve clipping in detail. 8
9. a) What are rubber-band method? Explain use of these. 7
- b) Explain hierarchical modeling. 6

OR

10. a) Explain in brief Input Device. 6
i) Locator
ii) Valuator
- b) List out the various properties of Bezier curve and explain. 7
11. a) Explain rotational splines. 6
- b) What is interpolation? Explain any one method of interpolation. 7

OR

12. a) Explain the following terms: 9
i) Perspective projection.
ii) Parallel projection.
iii) Surface rendering.
- b) Explain viewpoint clipping. 4

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