Roll No.						Total No. of Pages: 02	

Total No. of Questions: 18

B.Tech (CSE) (Sem.-5)
COMPUTER GRAPHICS
Subject Code: CS-309

Paper ID : [A0468]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- 1. Explain in brief about graphics hardware.
- 2. What do you mean by scan conversion?
- 3. Explain in brief about perspective projection.
- 4. What is Transformation?
- 5. Differentiate between window and view port.
- 6. Define clipping and list types of clipping.
- 7. Explain in brief about vanishing points.
- 8. Write advantages of z-buffer algorithms.
- 9. Explain in brief about fractals.
- 10. Define B-Spline curve.



SECTION-B

- 11. Write a brief note on Geometric Manipulation.
- 12. Explain the Bresenham's circle Algorithm with an example.
- 13. Write a detailed note on Plane projections.
- Explain in detail about homogeneous coordinates. 14.
- 15. Explain the concept of Gourard and Phong shading in detail.

SECTION-C

- Write a detailed note on I/O devices. 16.
- Discuss the scan line polygon fill algorithm in detail. What is a sorted edge table? 17.
- with the straint of t Explain in detail the Line clipping algorithms with an example. 18.

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