G 625 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2014

Seventh Semester

Branch : Computer Science and Engineering

COMPUTER GRAPHICS (RT)

(Old Scheme – Prior to 2010 Admissions)

[Supplementary]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*

Each question carries 4 *marks.*

1. List and explain some applications of Computer Graphics.
2. Explain briefly the working of Touch panels.
3. What is Clipping? Explain.
4. With example, explain composite 2D transformations.
5. Explain Polygon meshes briefly.
6. Explain the properties of B-Spline curves.
7. With figure, explain parallel projections.
8. Explain Gourand shading.
9. Explain Animation.
10. What are fractals? Explain.

(10 × 4 = 40 marks)

Part B

Answer **all** *questions.*

Each question carries 12 *marks.*

11. Explain with a diagram a raster scan system.

Or

12. Describe in detail different types of input devices.

Turn over

13. Explain with example, Breuenham's circle drawing algorithm.

Or

14. With example, explain 2D transformations.

15. With figures, explain polygon surfaces.

Or

16. With examples, describe the 3D display methods.

17. Explain Back-face detection.

Or

18. Describe in detail the basic illumination models.

19. Explain Geometric construction of deterministic self-similar fractals.

Or

20. Describe in detail the morphing methods in graphics.

(5 × 12 = 60 marks)