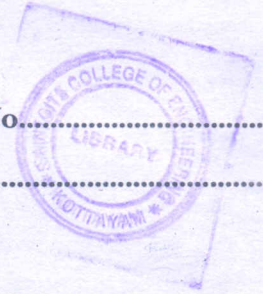


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Reg. No.....

Name.....



**B.TECH. DEGREE EXAMINATION, MAY 2015**

**Seventh Semester**

Branch : Computer Science and Engineering

CS 010 703—COMPUTER GRAPHICS (CS)

(New Scheme—2010 Admission onwards)

[Improvement/Supplementary]

Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.*

*Each question carries 3 marks.*

1. What are the applications of Computer Graphics ?
2. Explain the features of Raster Scan displays.
3. What is aspect ratio ?
4. Write a note on 3D viewing.
5. What are self squaring fractals ?

(5 × 3 = 15 marks)

**Part B**

*Answer all questions.*

*Each question carries 5 marks.*

6. Explain the generation of image in Random Scan displays.
7. Write a note on A-buffer method.
8. Explain the concept of clipping and its types.
9. Describe B-spline curves.
10. What is meant by windowing transformation ?

(5 × 5 = 25 marks)

**Part C**

*Answer all questions.*

*Each question carries 12 marks.*

11. Explain the various input output devices with a neat sketch.

*Or*

12. Explain the DDA line drawing algorithm.

**Turn over**



13. Illustrate the steps of Mid Point Circle Algorithm.

*Or*

14. Demonstrate the different 2D Transformation with examples.

15. Explain Bezier Curve representation technique and its properties.

*Or*

16. What are the different 3D display methods ?

17. Explain the classification of visible surface detection algorithms and brief on Depth-Buffer method.

*Or*

18. Explain Parallel Projection and Perspective projection of 3D objects.

19. Describe the polygon rendering methods.

*Or*

20. Explain how are fractals classified.

(5 × 12 = 60 marks)

