

C 62941

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Name

Reg. No.



**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE
[SUPPLEMENTARY] EXAMINATION, APRIL 2014**

(2009 Scheme)

IT 09 701 – COMPUTER GRAPHICS

Time : Three Hours

Maximum : 70 Marks

Part A

Short answer questions (one/two sentences)

Answer all questions.

1. Give the parametric representation of a Line segment.
2. How to eliminate totally visible lines with respect to a Rectangular window?
3. What do you mean by emissive and non-emissive displays?
4. List out the advantages of Curve Drawing.
5. What is meant by Perspective Projection?

(5 × 2 = 10 marks)

Part B

Analytical/Problem Solving Questions

Answer any four questions.

6. Mention the types of surfaces based on Reflection.
7. Write a note on 2-D drawing.
8. Give mid-point subdivision algorithm.
9. Discuss the steps for Ellipse drawing algorithm.
10. What are the steps involved in 3D transformation?
11. Brief about Right handed co-ordinate system.

(4 × 5 = 20 marks)

Part C

Descriptive/Analytical/Problem Solving Questions

12. (A) Explain in detail about color CRT monitors.

Or

- (B) Explain Scalar multiplication in detail with examples.

Turn over

13. (A) How window-to-view port co-ordinate transformation happens.

Or

(B) Describe Character Generation in detail.

14. (A) Explain Bresenham's line drawing algorithm with examples.

Or

(B) Explain beta splines in detail.

15. (A) Discuss Parallel projection in detail.

Or

(B) Illustrate with examples the Perspective view with viewpoint lying on Z-axis.

(4 × 10 = 40 marks)