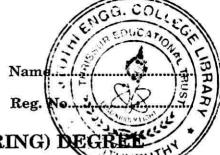
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SEVENTH SEMESTER B.TECH. (ENGINEERING) DE [SUPPLEMENTARY] EXAMINATION, APRIL 20

(2009 Scheme)

IT 09 701 - COMPUTER GRAPHICS

Time: Three Hours

Maximum: 70 Marks

Part A

Short answer questions (one/two sentences)

Answer all questions.

- 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?

 $(5 \times 2 = 10 \text{ marks})$

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.

 $(4 \times 5 = 20 \text{ marks})$

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.

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

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- (B) Describe Character Generation in detail.
- 14. (A) Explain Brehsenham's line drawing algorithm with examples.

Or

- (B) Explain beta splines in detail.
- 15. (A) Discuss Parallel projection in detail.

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

 $(4 \times 10 = 40 \text{ marks})$