

Register Number :

Name of the Candidate :

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B.Sc. DEGREE EXAMINATION, 2011

(COMPUTER SCIENCE)

(THIRD YEAR)

(PART - III)

(PAPER - XVI)

711/320/340. COMPUTER GRAPHICS

(Common with B.Sc.(I.T.) & Double Degree)

(Including Lateral Entry)

December] [Time : 3 Hours

Maximum : 100 Marks

SECTION - A (8× 5=40)

Answer any EIGHT questions.

ALL questions carry equal marks.

1. Explain the principle and working of tablet.
2. Write and explain DDA line drawing algorithm.

Turn Over

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3. Write down the circle generating algorithm.
4. Explain how to generate ellipse.
5. Write down transformation matrix for 3D translation.
6. Explain parallel projection.
7. Describe Bezier curves.
8. Write a note on B-splines.
9. Explain menu design in graphics system.
10. Describe various graphics file formats.

SECTION - B (3× 20=60)

Answer any THREE questions.

ALL questions carry equal marks.

11. Explain the principle and working of CRT with a neat diagram.
12. Explain the homogeneous matrix representation of 2D transformations.
13. Explain hidden line and hidden surface elimination methods.

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14. Discuss Ray tracing methods.
15. Explain input and output handling in window systems.