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Register Number:

Name of the Candidate:

M.C.A. DEGREE EXAMINATION, May 2015

(FIFTH SEMESTER)

511. COMPUTER GRAPHICS AND IMAGE PROCESSING

Time: Three hours Maximum: 100 marks

SECTION -A **(8 × 5 = 40)**

Answer any EIGHT questions

1. List the various input devices and explain them each in detail.
2. Discuss the point plotting techniques in detail.
3. Explain the Raster graphics systems in the neat diagrams
4. Discuss the solid area scan conversion with neat diagrams.
5. Write short notes on separable transformation.
6. List the various image models and explain.
7. Write short notes on textures segmentation.
8. What is edge linking and explain it in detail.
9. Explain the concepts of information theory.
10. Neatly draw the compression model and explain it.

SECTION -B **(3 × 20 = 60)**

Answer any THREE questions

11. Explain the concept line clipping and polygon clipping algorithms
12. Explain the 3D transform in detail with suitable diagrams.
13. What is FFT? Explain the properties of FFT along with its merits and demerits.
14. Discuss the frequency domain enhancement techniques in detail.
15. Discuss the lossy compression techniques with suitable diagrams.
