

Register Number :

Name of the Candidate :

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M.C.A. DEGREE EXAMINATION, 2013

(FIFTH SEMESTER)

(PAPER - XXI)

**511. COMPUTER GRAPHICS
AND IMAGE PROCESSING**

(Including Lateral Entry)

May]

[Time : 3 Hours

Maximum : 100 Marks

SECTION – A (8 × 5 = 40)

Answer any EIGHT questions.

ALL questions carry EQUAL marks.

1. What is scan conversion?
2. Write short notes on computer graphics with examples.
3. Write short notes on line.

Turn Over

4. What is transformation? Mention some different types of transformation.

5. Discuss the effects of non-uniform sampling.

6. Describe the fundamental operations on a digital image.

7. Describe the edge detection.

8. Write short notes on smoothing filter.

9. Describe the wavelet coding with suitable diagram.

10. Explain the different standards available for still images.

SECTION – B (3 × 20 = 60)

Answer any THREE questions.

ALL questions carry EQUAL marks.

11. (a) Compare & Contrast DDA & Bresenham algorithm.

(b) Elaborate on the following:

(i) Line Clipping.

(ii) Text Clipping.

12. (a) Explain in detail about 3D transformation.

(b) Explain solid area scan conversion in detail.

13. (a) Explain in detail about Walsh & Hadamard Transforms.

(b) Write short notes on Image sampling quantization.

14. (a) Explain the various sharpening filters in spatial domain.

(b) Explain on region-oriented segmentation techniques.

15. (a) Explain about LZW coding & predictive coding.

(b) Explain any two error free compression techniques with examples.