

Register Number :

Name of the Candidate :

7 0 2 2

M.C.A. DEGREE EXAMINATION, 2012

(FIFTH SEMESTER)

(PAPER - XXIX)

**511. COMPUTER GRAPHICS AND IMAGE
PROCESSING**

(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 about point plotting technique.
2. Name any four input devices and write short notes on it.
3. What are the steps involved in 3-Dimensional transformation?

Turn Over

4. Explain in detail about rasterization.
 5. Define quantization. Explain the concept of quantization in detail.
 6. Explain in detail about any three properties of FFT.
 7. Describe segmentation in detail.
 8. What is the importance of image enhancement?
 9. Explain about image compression.
 10. Differentiate between lossless and lossy compression.
- SECTION – B** (3 × 20 = 60)
- Answer any THREE questions.
ALL questions carry EQUAL marks.*
11. (a) Explain interactive input method.
(b) Explain 2D geometric transformation.
 12. (a) Write short notes on raster scan display systems.

- (b) Elaborate on the following :
 - (i) Curves.
 - (ii) surfaces.
13. Explain the elements of digital image processing system with a neat diagram.
14. Describe the spatial domain methods for image enhancement.
15. (a) Discuss the image compression standards.
(b) Explain the lossy compression wavelet coding.