

67141

MCA-3rd Semester current scheme with new notes
maximum marks scheme 80

Examination, December-2015

COMPUTER GRAPHICS AND MULTIMEDIA

Paper-MCA-301

Time allowed : 3 hours]

[Maximum marks : 80

Note : Question No. 1 is compulsory. Attempt any five questions at least one from each unit. All questions carry equal marks.

1. Explain the following :

- (a) Graphics Software
- (b) Cell array
- (c) Color and Grayscale levels
- (d) Text Clipping
- (e) Analog to Digital Conversion
- (f) Features of Matlab
- (g) Video display device
- (h) Use of MatLab in graphics animation.

Unit-I

2. What is Computer Graphics ? Explain its Types. Also Explain the Applications of Computer Graphics in detail.

3. Explain the following in detail :

- (a) Raster Scan System and Random Scan System
- (b) Graphics Monitors and Work Stations.

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Unit-II

4. (a) What is anti-aliasing ? Explain the reasons of aliasing in Computer graphics and explain the minimization or removing of aliasing in detail.
- (b) Explain the concept of Line Drawing Algorithms and Circle Generating Algorithms in detail.

5. Explain the following in detail :

- (a) Output Primitives Point and Lines
- (b) Boundary-Fill Algorithm and Flood Fill Algorithm.

Unit-III

6. (a) What do you mean by Projection ? Explain Parallel Projection and Perspective Projection in detail.
- (b) How is a window transformed on a viewport using two dimensional viewing transformation ?

7. Explain the following in detail :

- (a) Reflection and Shearing
- (b) 3D Transformations.

Unit-IV

8. What do you mean by multimedia Technology ? Explain its uses. Also explain the classification and components of Multimedia in detail.

9. Explain the following in detail :

- (a) Animation and Classification of Animation
- (b) Authoring Process and Tools