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July 2010

Bachelor of Computer Application (BCA) Examination VI Semester

Computer Graphics and Multimedia

Time: 3 Hours] [Max. Marks: 50

Note: Attempt any Five questions. All questions carry equal marks.

- (a) What is Computer Graphics? Write any four different applications of Computer Graphics.
 - (b) Explain, how color monitor works.
- 2. (a) Describe Bresenhams Line Drawing algorithm.
 - (b) Derive the transformation that rotates an object by angle θ about the origin. Write the matrix representation for the rolation.
- 3. (a) What is Homogeneous Coordinates System? What is the use of homogeneous coordinate system in computer graphics?
 - (b) Write scan line polygon filling algorithm.
- 4. (a) Write matrix representation of the reflection about X and Y axis.
 - (b) Write Cohen Sutherland line clipping algorithm.
- 5. (a) What is Data Compression? Describe any one image compression technique in detail.
 - (b) Describe various video file formats.
- 6. (a) Mention the various characteristics of Multimedia.
 - (b) Write the basic principles of animation in detail.
- (a) Mention various input devices used in Computer Graphics?
 Describe any one in detail.
 - (b) What is MP3? Why is it popular than any other audio file format?
- 8. Write short notes on any two of the following:
 - (a) Anti-aliasing
 - (b) Color models
 - (c) Raster scan system
 - (d) Morphing
 - (e) Window-viewport transformation.

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