Name -	
Reg. No:	

SIXTH SEMESTER BCA (CCSS) DEGREE EXAMINATION, MARCH 2013

CA6B14 - COMPUTER GRAPHICS & MULTIMEDIA

Time: Three Hours

Maximum: 30 Weightage

- I. Answer all 12 questions. $12x V_1 = 3$ weightage.
 - In raster scan displays_ the picture definition is stored in a memory area called
 - 2_ Say true or false: Shadow-mask is a technique used in Plasma displays.
 - 3. is a scan line conversion line algorithm based on calculating either δx or Sy.
 - 4: The reflection about the line y = 0 is accomplished with the transformation matrix
 - 5. is an example of polygon clipping algorithm.
 - 6. Say true or false: Transformation matrix for a reflection about the line y=x is equivalent to a reflection relative to the x-axis followed by a counterclockwise rotation of 45°.
 - 7. is an example of video file format.
 - 8. MIDI stands for
 - 9. Sound pressure levels (loudness or volume) are measured in
 - 10 The collection of color values held in a color lookup table is called a
 - In multimedia authoring systems, multimedia elements and events are often treated as that live in a hierarchical order of parent and child relationships.
 - 12. The first and last frame of an action are called
- II. Answer all 9 questions. $9 \times 1 = 9$ weightage.
 - 13. Define resolution and pixel.
 - 14. Define virtual reality.
 - 15 Define window and view port_

16. Explain 2D translation. Give matrix formulation or 2D translation.

Define multimedia.

- 18. Define sampling and quantization.
- 32. Write any four image processing operations.
- 19. Write the basic steps in JPEG.
- 20. Explain the representation of digital images.
- 21. List any four properties of multimedia systems.
- III. Answer any 5 questions. $5 \times 2 = 10$ weightage.
- ⁷2. Write a note on video controller.
 - 23. Discuss any four applications of computer graphics.
 - 24. Write a note on 2D composite transformation.
 - 25. Write a note on audio file formats.
 - 26. Write a note on animation techniques.
 - 27. Write a note on multimedia authoring tools.
 - 2. Write a note on hybrid compressing techniques.
- 1V. Answer any 2 questions, $2 \times 4 = 8$ weightage.
 - 29. Write and explain Bresenham's line drawing algorithm. Illustrate with suitable example.
 - 30. Write and explain any one line clipping algorithm. Illustrate with suitable example.
 - 31. Give a detailed account of MPEG.