NAME

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TIME-3HOUR MARKS-100

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2008 ANNA UNIVERSITY B.E/B.TECH DEGREE EXAMINATION GRAPHICS AND MULTIMEDIA (INFORMATION TECHNOLOGY)

JUNE-2008

PART - A [10X2=20]

ANSWER ALL QUESTIONS

- 1. What are the common attributes of a 'line'?
- 2. How will you perform transformation between coordinate systems?
- 3. What are the advantages of parallel projection?
- 4. How are polygon data stored in graphics applications
- 5. Write short note on 'AVI' format?
- 6. What are "asymmetrical applications"?
- 7. What is the difference between an interlaced and a non-interlaced monitor?
- 8. What do you know about the SCSI-2 standard?
- 9. Define 'Hypermedia'.
- 10. What are the standard types of multimedia object servers?

PART - B [5X16=80]

11. (a) Elaborately discuss the midpoint ellipse drawing procedure and solve the following:

Find the points on the ellipse in the first quadrant with major axis (rx) = 6 units and minor axis (ry) = 4 units.

- (b) (i) Find the reflection of a triangle with vertices at (4,10), (6,12) and (4,12) about the line y=x+5.
- (ii) Explain the Cohen Sutherland line clipping algorithm.
- 12. (a) (i) What are Bezier curves?Discuss their properties.
- (ii) How do you represent 3D objects using Octrees?
- (b)(i) Write notes on HSV and HLS color models.

Or

Or

- (ii)How is 'morphing' animation performed?Discuss with an example.
- 13. (a) (i) Write about multimedia applications involving full motion digital video.
- (ii) How do you define objects for multimedia systems?
- (b) (i) Define the multimedia workstation architecture and write about the various components.
- (ii) What types of Database management Systems are preferred for Multimedia. Systems? Explain.

14. (a) (i) Discuss in brief about the CCITT Group -3,2D compression standard for binary images.Mention its advantages and disadvantages.

- (ii) Describe the MPEG encoding technique for video. Or
- (b) Discuss at length about RAID technology for mass storage for multimedia systems.
- 15. (a) (i) Write in brief about the types of multimedia authoring systems.