

2006 CALICUT UNIVERSITY
EIGHTH SEMESTER B.TECH ENGINEERING DEGREE EXAMINATIONS
COMPUTER GRAPHICS AND MULTIMEDIA
(INFORMATION TECHNOLOGY)

JUNE 2006

TIME::3 HOUR
MARK:100

ANSWER ALL QUESTIONS

PART A [8*5=40]

1. Write the Cohen-Sutherland line-clipping algorithm.
2. Discuss in detail about the composition of 2D transformations.
3. Describe the properties of a Multimedia System.
4. Write short notes on Communication devices.
5. Briefly explain the types of image formats.
6. Describe the type of Animation Languages.
7. Write short notes on ADPCM.
8. Explain audio encoding in MPEG.

PART B [15*4=60]

9. Explain why the Sutherland-Hodgman polygon-clipping algorithm works for only convex clipping regions.
Or
10. Explain 3D clipping algorithms for parallel and perspective algorithms.
11. Briefly explain the medium and data streams in multimedia.
Or
12. Explain the following in detail -
(a) 3D modeling and Animation Tools.
(b) Image Editing Tools.
(c) Sound Editing Tools.
13. List out the measures used in Visual Representation and explain it.
Or
14. Discuss in detail about the transmission of video signal.
15. Explain the use of H.262 in Data Compression.
Or
16. Describe the characteristics of an MPEG-2.

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