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B.Tech IV Year I Semester (R13) Supplementary Examinations June 2017

COMPUTER GRAPHICS & MULTIMEDIA

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70 PART - A (Compulsory Question) Answer the following: $(10 \times 02 = 20 \text{ Marks})$ 1 Define computer aided design. (a) List the video display devices. (b) Briefly write about scan converting lines. (c) What is 2D transformation? (d) Write the examples of 3D viewing. (e) Define Bezier surfaces. (f) What are the functions of two variables? (g) Write about illumination methods. (h) What are the uses of multimedia? (i) Explain audio file formats. (j) PART - B (Answer all five units, $5 \times 10 = 50 \text{ Marks}$) [UNIT - I] 2 Explain the role of computer graphics in visualization and image processing. 3 Describe raster scan systems and random scan systems UNIT - II Write and explain polygon filling algorithm using scan line method. 4 5 Summarize matrix representation of 3D transformations. UNIT - III Explain about Hermite curves and B-spline surfaces. 6 Discuss rendering techniques for line drawings. 7 UNIT - IV 8 Describe techniques for efficient visible surface algorithms. OR 9 Discuss the Z-buffer algorithm in detail. UNIT – V Demonstrate MIDI versus digital audio. 10

OR

Explain about multimedia system sounds.