2018

COMPUTER GRAPHICS MULTIMEDIA AND

Paper: IT 602

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions

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- -Hodgman Polygon Clipping. Explain with an example Sutherland-
- (a) What are the types of visible detection. detection algorithm? Explain Buffer method of visible surface 2+8=10surface Depth-
- (b) an example and diagram of Orthogonal Projection Transformation What is Depth Cueing? Explain with 2+8=10
- ω (a) few applications of Computer Graphics. What is Computer Graphics? Explain 2+8=10

- (b) What is the difference between emissive diagram. non-emissive display technology with a and non-emissive display? Explain any 2+8=10
- (a) advantage of Bresenham algorithm over Define Aspect Ratio. What is the DDA line drawing algorithm? 2+3=5

Explain with a diagram the Boundary

Fill algorithm.

6

(c) raster system with a resolution of 1280 What is the fraction of the total refresh vertical retrace time of 500 µs? horizontal retrace time of 5 µs, and a by 1024, a refresh rate of 60Hz, a electron beam for a non-interlaced time per frame spent in retrace of the

S (a) Explain with a diagram, how to generate 3D rotation matrix.

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(b) Show that transformation matrix, for a equivalent to a reflection relative to the reflection about the line y=x, is rotation of 90°. X-axis followed by a counterclockwise

- 6 What is Computer Animation? Explain Animation. Animation. Explain with diagram Keyframe Double Buffering method used in Computer 2+6+12=20
- 7. Write short notes on:

2×10=20

- Three-Dimensional Viewing Devices
- Inside-outside Test.

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