Total No. of Questions-8]

[Total No. of Printed Pages-3

(b)

Perform scaling on a triangle (1, 1), (8, 1) and (1, 9) with

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00 N N.B. :— Time: Two Hours No. Seat (a) (a) 0 (b) (a) (b) (iii) Attempt Q. No. 1 or Q. No. 2 Q. No. 3 or Q. No. 4, Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8. (i) Neat diagrams must be drawn wherever necessary. (11) 3-D with diagram. Explain how to perform rotation about an arbitrary axis in Explain Cohen-Sutherland Line clipping algorithm with Explain DDA Line drawing algorithm with example, Explain Scanline Fill algorithm in detail (3, 2) to (7, 4) using the same. which pixel would be turned on for the line with end points Write and explain Bresenham's line algorithm and find out Explain character generating methods. (Computer) (II Sem.) EXAMINATION, 2017 Assume suitable data, if necessary COMPUTER GRAPHICS (2015 PATTERN) Maximum Marks: 50 [5152]-567[4] 9 2 [4] [6] 9 OT (a) (a) (c) (b) (b) <u>c</u> 6 (a) What is Animation and Morphing? Explain RGB and HSV color Models Explain CIE Chomaticity Diagram (iii) (ii)Write short notes on (any two) algorithm. Explain Z-buffer and BSP hidden face removal algorithm with Enlist and explain Shading algorithms with scaling factor of 2 in both x and y directions. Find the final Explain Warnock's and Painter's hidden face removal of projections disadvantages. What are the types of projections and brief about each type coordinates of triangle. their advantage. Phong Specular Reflection Model.

Warn Model. 0

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P.T.O.

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What is Fractals? Explain Triadic (Koch) and Hilbert Explain Bezier Curve. List its properties. curve. (a) (9) 7

[4] Draw block diagram of NVIDIA workstation and brief (a)

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(9)

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(i) OpenGL (ii) i380

(iii) B-spline Curve.

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