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Question Paper Code: 91404

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Fifth Semester

Computer Science and Engineering CS 6504 - COMPUTER GRAPHICS

(Regulations 2013)

(Common to PTCS 6504 - Computer Graphics for B.E. (Part-Time) Fifth Semester -Computer Science and Engineering – Regulations 2014)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

end in the many time at the same at the PART - A same at the same (10×2=20 Marks)

- 1. Define refresh/frame buffer.
- 2. What are the merits and demerits of direct view storage tubes?
- 3. Derive the general form of scaling matrix about a fixed point (x_f, y_f) .
- 4. Write down the conditions for point clipping in window.
- 5. What are blobby objects? Give two examples.
- 6. State the applications of Bezier splines.
- 7. How you define intensity?
- 8. State Dithering technique.
- 9. Define morphing.
- 10. What is fractal?

PART - B

 $(5\times13=65 \text{ Marks})$

- 11. a) i) Define and differentiate random scan and raster scan devices. (5)
 - ii) Using Bresenhams circle drawing algorithm plot one quadrant of a circle (8)of radius 7 pixels with origin as centre.

(OR)

- b) i) How are event driven input devices handled by the hardware? Explain. **(7)**
 - ii) Discuss the primitives used for filling.

(6)

PART – C (1×15=15 Marks)

16. a) i) Derive the matrix representation of composite transformation. (8)

ii) Show that the Bezier curve always touches the starting point (for u = 0) and the ending point (for u = 1). (OR)

b) i) Explain in detail about the properties of light and draw chromacity diagram. (8)

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ii) Rotate the point P(2, -4) about the origin 45° in anti clockwise direction. (7)