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Quest	tion Paper Code	:91404 1, 1/2/19
Co CS (Common to PTCS 6504 –	E EXAMINATIONS, NOVE Fifth Semester Emputer Science and Engine 6 6504 – COMPUTER GRA (Regulations 2013) Computer Graphics for B.E. Science and Engineering – R	neering PHICS C. (Part-Time) Fifth Semester –
Time : Three Hours		Maximum: 100 Marks
	Answer ALL questions	
	PART – A	(10×2=20 Marks)
1. Define refresh/frame bu	affer.	The said of the said and and
2. What are the merits and	d demerits of direct view stor	rage tubes?
3. Derive the general form	of scaling matrix about a fix	x = x = x = x = x = x = x = x = x = x =
4. Write down the condition5. What are blobby objects	ons for point clipping in wind s? Give two examples.	s.com
6. State the applications of	f Bezier splines.	
7. How you define intensit	ty?	
8. State Dithering techniq	ue.	mails of expenditures at
9. Define morphing.		
10. What is fractal?		
	PART – B	(5×13=65 Marks)
11. a) i) Define and differe	entiate random scan and ras	eter scan devices. (5)
ii) Using Bresenhan		plot one quadrant of a circle (8)
(0	DR)	
	riven input devices handled b	
	itives used for filling.	(6)
b) i) How are event dr ii) Discuss the primi		
	The same of the sa	

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14.	a)	Explain about composite transformation in general and explain the following with matrix representations:	5
		i) Two successive translations.	(0)
		ii) Two sycanosius patations	(3)
		iii) Two successive rotations.	(3)
		iv) General pivot point rotation.	(3)
		v) General fixed point scaling.	(2) (2)
		(OR)	(2)
	b)	i) Elaborate the concept of viewing pipeline.	(0)
		ii) Explain Sutherland-Hodgeman algorithm for polygon clipping.	(6) (7)
13	9)	Write notes on:	
10.	aj		
		i) Quadric surfaces.	(6)
		ii) Polygon surfaces.	(7)
		(OR)	
	b)	Explain a method to rotate an object about an axis that is not parallel to the	
		coordinate axis with a neat block diagram and derive the transformation matrix	
		for the same.	(13)
14.	a)	Illustrate the following illumination models with suitable diagram: Ambient	
		Light and Diffuse Reflection.	(13)
		(OR)	(/
	1.1		
	D)	Discuss the following color models with suitable diagram and equations: RGB, HSV and YIQ models.	(13)
15	(۵		
10.	a)	i) Discuss on the Grammar-based models in detail.	(6)
		ii) Give a detailed note on the ways in which motion of objects can be specified	
		in an animation system.	(7)
		(OR)	
	b)	i) Explain ray tracing method in detail.	(0)
		ii) What is Morphing? Explain in detail about morphing with an example.	(6)
			(7)
		PART – C (1×15=15 Mar	rks)
16.		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 $u = 1$).	(7)
		(OR)	
	1.4		
	b)	i) Explain in detail about the properties of light and draw chromacity diagram.	(8)
		ii) Rotate the point P(2, -4) about the origin 45° in anti clockwise direction.	(7)
		The state of the s	