Total	No.	of	Questions -	[80]	
		-	& or o peroring	00	

Total No. of Printed Pages- [02]

G.R.	No.	Papez Code - U228-124 CPE	;-F
		MAY 2019/ENDSEM - RE-EXAM	
		S. Y. B. TECH. (COMPUTER) (SEMESTER - II)	
CO	UR	SE NAME: COMPUTER GRAPHICS	
CO	UR	SE CODE: CSUA22174	
		(PATTERN 2017)	
Time	e: [ <b>2</b>	Hours] [Max. Marks:	<b>50</b> ]
1) 2) 3)	Ans Figu Use	etions to candidates: wer Q.1, Q.2, Q.3, Q.4, Q.5 OR Q.6, Q.7 OR Q.8. ures to the right indicate full marks. of scientific calculator is allowed. suitable data where ever required.	
Q.1)	a)	Explain DDA Line Drawing Algorithm with example.	[6]
		OR	
	b)	Define the following terms: 1) Pixel 2) Frame Buffer 3) Resolution 4) Aspect ratio.	[6]
Q.2)	a)	Explain inside-outside test for polygon filling.	[6]
		OR	
	b)	Explain Sutherland Hodgeman polygon clipping algorithm.	[6]
Q.3)	a)	Explain rotation about an arbitrary point with its transformation matrix.	[6]
		OR	
	b)	Explain Translation, Scaling & Rotation in 2D transformation.	[6]
Q.4)	a)	Draw and explain CIE chromaticity Diagram	[4]
		OR	

b) Explain RGB and HSV color Models.

[4]

Q.5)	a)	Explain Gouraud Shading Algorithm with example.	[6
	b)	What do you mean by Point Source illumination and Diffuse illumination.	[4
	c)	What are the two approach methods of Hidden Surfaces?	[4
		Course Code:	
		Course NamSO	
0 5		No. of Pages:	
Q.6)	a)	Explain Z-Buffer Algorithm with example.	[6
	b)	Explain Phong Shading Algorithm.	[4
	c)	Explain Specular reflections with multiple light source.	[4
Q.7)	a)	Explain Circular Arc generation using DDA Algorithm.	[6]
	b)	Explain Koch Snowflake Curve.	[4
	c)	Elaborate importance of gaming in research.	[4
		OR	
O 9)	۵١	Define Frankels and six 1 - 15 - 1 - 1 - 1	
Q.8)	a)	Define Fractals and give classification of Fractals.	[6]
	b)	Explain Bezier Curve with example.	[4]
	c)	What are the Graphics tools used in Computer Graphics?	[4]

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