G.R. No. Paper Code -

Paper Code - U229-144 (BE-FaF

DEC 2019/ENDSEM - Backlog Exam

S. Y. B. TECH. (IT) (SEMESTER / II) **COMPUTER GRPHIICS COURSE NAME: COURSE CODE: ITUA22174 (PATTERN 2017)** Time: [2 Hours] [Max. Marks: 50] (*) Instructions to candidates: Answer Q.1, Q.2, Q.3, Q.4, Q.5 OR Q.6, Q.7 OR Q.8 1) Figures to the right indicate full marks. 2) Use of scientific calculator is allowed 3) 4) Use suitable data where ever required Rasterize a line from (10,10) to (22,20) using Bresenham's line drawing [6] Q.1)algorithm. OR Discuss OPELGL commands to draw shapes. [6] Discuss seed fill polygon filling methods. [6] Q.2)OR Write short note on 2D translation. b) [6] Q.3)Organize different types of parallel projections into tree structure and give a) [6] details. OR Draw and Clarify the process of 3D scaling. [6] Brief region code concepts of used in line clipping algorithm with diagram Q.4)[4] OR What is segment? Explain segment closing operation [4]

1/2

Q.5)	a)	With any suitable example detail the algorithm for fractal lines.	[6]
	b)	Describe different types of Animation.	[4]
	c)	Provide details of the faceted shading algorithm. What are drawbacks of it.	[4]
		OR /	
Q.6)	a)	Enlist the steps of Phong Shading in detail.	[6]
	b)	Describe the process of Koch curve generation.	[4]
	c)	Explain key framing animation with example?	[4]
Q.7)	a)	Explain JPEG encoder with block diagram.	[6]
	b)	Describe fundamental steps of image processing.	[4]
	c)	What is bit depth? Give example of various bit depths.	[4]
		OR	
Q.8)	a)	What is quantization? How it is carried out in JPEG?	[6]
	b)	Differentiate between symmetrical and asymmetrical compression?	[4]
	c)	Write short note on BMP and GIF.	[4]

2/2