Tota	tal No. of Questions : 4]	
	0-445 SEAT	No. :
	[6409]-283	Total No. of Pages : 2
S.	S.E. (Computer Science and Engineering) (D	
	Or Caracilla,	ata Science)
	COMPUTER GRAPHICS	
	(2019 Pattern) (Semester-IV) (2106	
0.000		56)
	: 1 Hours	80
Instruc	uctions to the candidates :	Max. Marks: 30
	1) Solve Q.1 or Q.2 and Q.3 or Q.4.	*
34	2) Neat Diagram must be drawn wherever necessary.	
-	3) Figure to the right indicates full marks,	
3	Assume Suitable data if necessary.	
Q1) a)		
	Aspect ratio	
	ii) Frame buffer	
	iii) Pixel	Š
	iv) Resolution	118
b)	CONTRACTOR AND	(A)
c)	Difference between Raster Scan System and Random S  What is OpenGL 23 Wester in S.	Scan System [6]
	Syrine its features and Functions.	5 [5]
Q2) a)	Write P OR	55.4
2-/ 4/	Write Bresenham's circle drawing algorithm. Plot the ci coordinate (0,0) and radius r = 3.	rcle with center
b)	J	1.43
	What is computer graphics? State the application of com	puter Graphics.
6)	AT ST	7.00
c)	Explain DDA line Drawing algorithm. Consider line segments B (7,4) use DDA line drawing algorithms	10
	to B (7,4) use DDA line drawing algorithm to fasterize this	s line. [5]
	, a5.	
	, di	P.T.O.
	57	
	DAC.	

Q3) a)	What is Polygon? What are the types of Polygon?	
b)	Rasterize the line AB using Bresenhem's Line algorithm V B= (12,9)	[4] Where A= (4.4)
c)	Compare DDA and Bresenham's line drawing algorithm	(G)
Q4) a)	Explain polygon fill with-Boundary fill alcount	*
b)		[4]
c)	Write block structure of OpenGL window Creation.	[6]
1. X	CEL SOST ** * * * * SON	[5]
	SELIANDE SECRETARION SELECTION OF SELECTION	S. S. J. S. J. S.
[6409]-283	2 11/1/2012	