	2	10	210	210	210	210	210	210
	Re	gistratio	n No :				7	
			L					
ota	al Nu	umber of	Pages : 02	210	210	210	²¹⁰ B.T PCS5	ech 1102 ²¹⁰
			5 th Sem	COMPUTE BRAN Time Max N	Back Examinat ER GRAPHICS ICH : CSE : 3 Hours Iarks : 100 DE : E299	ion 2018-19		
An	swe	rQuesti		1) which is con from		EIGHT ^₂ from Pa	rt-II and any TV	NO 210
			The ligure	-	-	uicale marks.		
Q1	a) b)	What is f	ractal dimensior	estions (Answe and how is it ca	alculated?	ng factor Sx = Sy		x 10)
	c) ² d) e) f)	Differenti Define pe Explain s Differenti	ate between ras ersistence. Wha hearing in 2D w ate between int	ster scan [°] and rar t type of persiste ith an example. erpolating and ap	ndom scan systen nce systems are oproximating curv	ns 210 held in animations res with an examp	210 s?	210
	g) h)	using Ph Differenti	ong shading. ate between pa	rallel and prospe	ctive projections	polygon surface i with an example.	s rendered	
	i) j) 21				in with an examp algorithm and Bo	le. oundary₂Fill algorit	hm 210	210
Q2	a)	Explain	the working pri	Type Question		EIGHT out of TV display device w		x 8)
	•		e the intermed tes as (20, 10)		as (30,18) using	ates between th g Bresenham's lir	ne drawing	010
	c)	Derive the Bezier cu [x(u), y(u	ne expressions urve with contro)]	for computing t I points (1,2) ,(3	,4), (6,-6) and (1	s of Bezier curve 0,8) with step size		210
	d) e) f)	Explain t algorithm	he z-buffer algo and explain ho	rithm with an ex w is it overcome	n with an example ample. What is th in A-buffer algori nation sequence.	ne main limitation thm.	of z-buffer	
		Explain t Explain v	he method of Go vhat do you mea	ouraud shading v an by augmented	with an example.	210	210	210
	j) k) l)	graphics Different	iate between im	age space and o	bject space meth	volume with refer ods with an exam n its implementation	ple.	

Explain both for ²¹ /about th	what do you me geometric and le origin ^o with ve	estions (Answer ean by transform coordinate syste ertices at ^o the ori	Any TWO out on the out on the out of the out	perations of tran example. Rotate	e a triangle	16) 210
figure, d	letermine the lir	ne segments or	part of it that c	an be clipped, i.		16)
210	A/\	B		0	210	210
210	1-	WINI	G	Y	210	210
		lden surface rem	oval? Explain the	e scan-line and d	epth-sorting (16)
210	210	210 n model is used	210 ? Explain the v	210 various kinds of	210 illumination (21(16)
210	210	210	210	210	210	21
210	210	210	210	210	210	21
	Explain both for 21 about th C(20,10) Explain figure, d intersect 210 210 210 210 210 210 210 210 210	Explain what do you me both for geometric and about the origin with ve C(20,10) BY 30 degrees Explain the mechanism figure, determine the lin intersection points of the 210 What d you mean by hid methods. 210 Why for an illumination models. 210 210 210 210 210 210	<text><text><text><text><text></text></text></text></text></text>	Explain what do you mean by transformation and the or both for geometric and coordinate systems with proper about the origin with vertices at the origin and coordin $C(20,10)$ BY 30 degrees. Explain the mechanism of Cohen-Sutherland line clipping figure, determine the line segments or part of it that or intersection points of the line segments that need to be clipping of the line segment	Long Answer Type Questions (Answer Any TWO out of FOUR) Explain what do you mean by transformation and the operations of trans both for geometric and coordinate systems with proper example. Rotate about the origin with vertices at the origin and coordinates A(10,20), B (2(0,10) BY 30 degrees. Explain the mechanism of Cohen-Sutherland line clipping algorithm. For figure, determine the line segments or part of it that can be clipped, it intersection points of the line segments that need to be clipped. What dyou mean by hidden surface removal? Explain the scan-line and denotes. Why for an illumination model is used? Explain the various kinds of models.	Long Answer Type Questions (Answer Any TWO out of FOUR) Explain what do you mean by transformation and the operations of transformations both for geometric and coordinates systems with proper example. Rotate a triangle about the origin with vertices at the origin and coordinates $A(10,20)$, $B(10,10)$ and $C(20,10)$ BY 30 degrees. Explain the mechanism of Cohen-Sutherland line clipping algorithm. For the given figure, determine the line segments or part of it that can be clipped, i.e., find the intersection points of the line segments that need to be clipped. 210 Image: Provide the example of the line segments or part of it that can be clipped. 210 Image: Provide the example of the line segments or part of it that can be clipped. 210 Image: Provide the example of the line segments or part of it that can be clipped. 210 Image: Provide the example of the line segments that need to be clipped. 210 Image: Provide the example of the line segments that need to be clipped. 210 Image: Provide the example of the line segments that need to be clipped. 210 Image: Provide the example of the line segments that need to be clipped. 210 Image: Provide the example of the line segments that need to be clipped. 210 Image: Provide the example of the example of the provide the example of the exam