Total No. of Questions: 8] P1020			estions: 8] SEAT No.: [Total No. or	f Pages : 2				
			[5870]-1209					
T.E. (Computer Engineering)								
I	OF	NO	RS - VIRTUAL REALITY AND AUGMENT	ED				
			REALITY					
			Virtual Reality					
			(2019 Pattern) (Smester - I) (310701)					
Time: 2½ Hours] [Max. Mark								
Instructions to the candidates:								
	<i>1</i>)	Atte	npt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.					
	2) Neat diagrams must be drawn whereever necessary.							
	3)	O) •	res to the right indicate full marks.					
	4) \	*Assu	me suitable data, if necessary.					
Q 1)	a)	Des	cribe Physiology of the human eye with diagram.	[9]				
	b)	Wri	te note on Geometry of Virtual Worlds.	[8]				
			OR OR					
Q2)	a)	Exp	lain different type of eye movements.	[9]				
	b)	Wha	at is Orthographic projection and Perspective projection.	[8]				
				250				
Q 3)	a)	Exp	lain following term w.r.t monocular depth cues with diagrar	n [6]				
~	ŕ	i)						
		ii)	Height in the visual field					
		iii)	Motion parallax					
	b)		Retinal image size Height in the visual field Motion parallax lain perception of motion in detail.	[6]				
		Explain perception of motion in detail.						
	c)	Wha	at is Rasterization?	[6]				

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Q4)	a)	What is Ray Tracing and Shading Models? Explain.	6]
	b)	What are the different strategies use to reduce the latency and to minimize the side effects of it?	ze 6]
	c)		6]
		9,36	
Q 5)	a)		9]
		i) Calibration	
		ii) Integration	
		iii) Registration	
		iv) Drift error	
	b)	iv) Drift error Explain vestibular system in detail. OR	9]
		OR OR	
Q6)	a)		9]
	b)	What is tracking? Explain 3D tracking system. [9]	9]
Q 7)	a)	What are Design considerations interaction mechanism for virtual reality	
)]
	b)	Describe Physiology of human hearing with diagram. [8]	33()?
		OR S) Y
Q 8)	a)	Explain Locomotion and Manipulation for interaction mechanism of virtureality.	al 9]
	b)		8]
	U)	Explain in short Additory 1 electron and Additory Achidening.	ני
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[587	70].	-1209	
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