Total	l No	o. of Questions : 8] SEAT No. :	
P-4	60	[Total No. of Pag	ges : 2
		[6003]-567	
		T.E. (Honors)	
		VIRTUAL REALITY (310701)	
		(2019 Pattern) (Semester - I)	
Time	$2:2^{\frac{1}{2}}$	½ Hours] [Max. Mark	cs :70
Instr	ucti	ions to the candidates:	
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.	
	3)	Figures to the right indicate full marks.	
	<i>4</i>)	Assume suitable data, if necessary.	
Q 1)	a)	Explain in detail different geometric models?	[9]
	b)	What are axis angle representations of rotations?	[8]
		QR	
Q2)	a)	Explain Implications for VR.	[9]
	b)	What is Orthographic projection and Perspective projection.	[8]
	,		
()2)	(۵	What is Visual Parantian? Have to improve from rates in Vi	diam's
<i>Q3</i>)	a)	What is Visual Perception? How to improve frame rates in V Perception.	[6]
	b)	Explain perception of motion in detail.	[6]
	c)	What is Rasterization?	[6]
		OR OR	
Q4)	a)	Explain the structure of the Human Eye?	[6]
	b)	Explain Ray Tracing and Ray Casting.	[12]
	,		
Q 5)	a)	Explain the difference between tracking 2D and 3D orientation?	[9]
	b)	Explain Mismatched obstacles in VR.	[8]
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Q6) a)	Explain motion in Real and virtual world.	[9]
b)	What is tracking? Explain 3D tracking system.	[8]
Q7) a)	Write short on Auditory perception.	[9]
b)	Explain with diagrams the physiology of human hearing.	[9]
	OR	
Q8) a)	Explain Locomotion and Manipulation for the interaction med virtual reality.	[0]
b)	Explain Auditory rendering in detail. • • •	[9]
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