SPPU-TE-COMP-CONTENT – KSKA Git

Tota	l No	. of Questions : 8] SEAT No. :		
PA	-16		o. of Pages : 2	
[5926] 259 T.E. (Computer Engine (Honorg)				
T.E. (Computer Engineering)(Honors) VIRTUAL REALITY				
Augmented Reality				
(2019 Pattern) (Semester - I) (310701)				
Time: 2½ Hours] Instructions to the candidates:			x. Marks : 70	
	<i>1</i>)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.		
	2) 3)	Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks.		
	<i>4</i>)	Assume suitable data, if necessary.		
<i>Q1</i>)	a)	Explain in detail how to change position and rotate ob	jects using	
		Geometric Models.	[9]	
	b)	Explain different types of eye movements.	[8]	
OR				
Q2)	a)	Describe physiology of the human eye with a diagram.	[9]	
~	b)	Describe axis angle representations of rotation in detail.	[8]	
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<i>Q3</i>)		Explain perception of color.	rch [ng/	
	b)		[6]	
	c)	How to improve latency?	⊘ [6]	
OR OR				
Q4)	a)	How to improve frame rates in Visual Perception?	[6]	
	b)	What are Ray Tracing and Shading Models? Explain.	[6]	
	c)	What are the different strategies used to reduce the late	ency and to	
		minimize the side effects of it?	[6]	
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<i>Q5</i>)	a)	Explain the role of Physics Engine in Virtual World.	[10]	
	b)	Explain vestibular systems in detail.	[7]	
		OR OR		
			<i>P.T.O.</i>	

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Q6) a) Explain Tracking in 2D Orientation.	[10]
b) State and Explain different types of vection	on. [7]
Q7) a) Explain the term locomotion.	[9]
b) Describe Physiology of human hearing wi	ith diagrams. [9]
OR	
Q8) a) Explain in short Auditory Perception and	Auditory Rendering. [9]
b) Explain the interaction with motor program	
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