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School of Engineering B.TECH Mechanical Engineering

Mid Term Examination - Nov 2023

Duration: 90 Minutes Max Marks: 50

Sem V - G3UB507T - Augumented Reality and Virtual Reality

General Instructions Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	Describe the concept of 3D boundary representation in geometric modeling.					
2)	Explain the concept of collision detection in the context of Virtual Reality.					
3)	How does human physiology and perception relate to VR experiences?	K2 (4)				
4)	How is the virtual observer positioned in VR environments?					
5)	What are the principles of color theory relevant to computer graphics in VR?					
6)	Explain the concept of movement capture in VR.					
7)	How are geometrical transformations used to manipulate objects in VR?					
8)	What are the challenges associated with Augmented Reality (AR)?	K4 (12)				
	OR					
	Explain the functionality and methods used in AR systems.	K4 (12)				