

END SEMESTER EXAMINATION

December-2022

Course Code: CACSE53

Course Title: AUGMENTED REALITY

Time: 3 Hours

Max Marks: 40

Note: Attempt all the five questions.
Assume suitable missing data, if any

No.	Question	CO	Marks
Q 1	Attempt any two parts of the following		8
1a.	Differentiate between Augmented reality (AR) and Virtual reality. Also discuss the relationship between AR and media.	1	4
1b.	How does augmented reality work? Also describe its evolution.	1	4
1c.	Describe the different ingredients of an augmented reality experience. Also write down the various applications of augmented reality.	1	4
Q 2	Attempt any two parts of the following		
2a.	What is the role of processor? Also describe the processor system architecture with the help of a block diagram.	2	4
2b.	Write a short note the following i. Visual Display ii. Audio Display	2	4
2c.	Describe the different characteristics of tracking technology.	2	4
Q 3	Attempt any two parts of the following		
3a.	Describe the major software components for augmented reality systems. Also write down the key feature of any software of your choice which used to create content for the Augmented Reality Application.	3	4
3b.	Explain the working of Multiple-Camera Infrared Tracking.	3	4
3c.	Write a short note on Natural Feature Tracking by detection	3	4
Q 4	Attempt any two parts of the following		8
4a.	Explain marker-based tracking and different types of markers.	4	4
4b.	Compare Visual tracking with feature based tracking	4	4
4c.	Write a short note on Localization based augmentation,	4	4
Q 5	Attempt any two parts of the following		8
5a.	Elaborate the role Scene Generator.	5	4
5b.	Discuss the functioning of Monitoring System.	5	4
5c.	List out the various AR Devices with their examples.	4,5	4