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Sem.	07

Roll	No.	

B.Tech. CSAI

## **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

1a. I d	Attempt any two parts of the following Differentiate between Augmented reality (AR) and Virtual reality. Also liscuss the relationship between AR and media. How does augmented reality work? Also describe its evolution. Describe the different ingredients of an augmented reality experience.	1	8
1a. I d	Differentiate between Augmented reality (AR) and Virtual reality. Also liscuss the relationship between AR and media. How does augmented reality work? Also describe its evolution.	1	
1b. F	low does augmented reality work? Also describe its evolution.		
		1	4
	Also write down the various applications of augmented reality.	1	4
	Attempt any two parts of the following		
2a. V	What is the role of processor? Also describe the processor system rehitecture with the help of a block diagram.	2	4
2b. V	Vrite a short note the following  i. Visual Display  ii. Audio Display	2	4
2c. D	Describe the different characteristics of tracking technology.	2	4
	Attempt any two parts of the following		
A	Describe the major software components for augmented reality systems.  Also write down the key feature of any software of tour choice which used to create content for the Augmented Reality Application.		4
3b. E	xplain the working of Multiple-Camera Infrared Tracking.	3	4
	Vrite a short note on Natural Feature Tracking by detection	3	4
	ttempt any two parts of the following		8
la. E	xplain marker-based tracking and different types of markers.	4	4
b. Co	ompare Visual tracking with feature based tracking	4	4
c. W	rite a short note on Localization based augmentation,	4	4
25 A1	ttempt any two parts of the following		8
a. El	aborate the role Scene Generator.	5	4
	A A A A A A A A A A A A A A A		

5b. Discuss the functioning of Monitoring System.

5 4

5c. List out the various AR Devices with their examples.

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## B.Tech. (CSE/CSAI) 7th Semester END-SEMESTER EXAMINATION, NOV.-DEC., 2022

Course Code: COCSE59/CACSE55

Course Title: Human Computer Interface

Time: 3 Hrs.

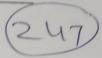
Max. Marks: 50

Note: Attempt ALL FIVE questions. Missing data/information, if any, may be suitably assumed and mentioned in the answer.

Q. No.	Question	Marks	CO
Q1	Attempt ANY 2 of the following parts.		
1a	Explain various visual techniques required to augment visually pleasing composition of user screen.		CO1
16	What is usability in User Interface Design? Why usability is so important? Explain the principles of User Interface Design.		CO1
ıc	How do ergonomics affect the interaction between human and machines? Explain.		CO1
Q2	Attempt ANY 2 of the following parts.		
· 2a .	Explain low-fidelity prototyping and high-fidelity prototyping in detail.	5	CO2
2b	Explain the six stages of LUCID development methodology.		CO2
- 2c	Explain how can you implement Shneiderman's eight golden rules to efficient interface.		CO2
Q3	Attempt ANY 2 of the following parts.	5	
3a	What are the factors governing the choice of an appropriate evaluation method for different interactive systems? Give brief details.		CO3
3b	What are the four main types of help that users may require? For each type, give an example of a situation in which it would be appropriate.		CO3
3c	Explain Nielsen's 10 Heuristics Usability Principles to Improve UI Design.	5	CO3
Q4	Attempt ANY 2 of the following parts.		
4a	Discuss about the presentation styles of a window.	5	CO
4b	Discuss the issues and challenges involved in designing menus for small display units.		CO
4c Q 5	Write about the guidelines that must be considered in choosing colors for information.  Attempt ANY 2 of the following parts.		co
5a	Briefly describe the features of the different keyboard layouts.	5	CC

5b	Explain the variou	is display technol	ogies applicable	for small and large	5	CO5
1	displays.			,	1	1
1.	*			and the second s		-
5c	Discuss the char Technology.	llenges and Issu	es in adopting	Speech Recognition	5	CO5

## B.Tech. (CSE) 7th Semester END-SEMESTER EXAMINATION, NOVEMBER-DECEMBER, 2023



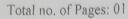
Course Code: COCSE59

Course Title: Human Computer Interface

Time: 3 Hrs.

Max. Marks: 50

Q. No.	Question	Marks	CO
1	Attempt ANY TWO parts.		
a	Explain the simple stages of action model of system response time and user think time.		СО
ь	Analyze briefly four different interaction styles used to accommodate the dialog between user and computer.	5	СО
c	Explain the role of user documentation in HCI. What are the major parameters on which documentation should be done?		CO
2	Attempt ANY TWO parts.		1
а	Explain various visual techniques required to augment visual pleasing composition of user screen.	5	СО
Ь	Do you think that prototyping will solve all problems associated with user interfaces design? Analyze it.	5	СО
С	Comment and identify the use of layout and other elements in the control panels.	5	CO
3	Attempt ANY TWO parts.		
9	What are the roles of icons, graphics and color in providing feedback?	5	CO:
b	What type of HCl paradigm could be used to monitor eruptions of active and hazardous volcanoes? Analyze.	5	CO
С	Conclude the factors in the physical environment that directly affect the quality of the interaction and the user's performance.		CO
4	Attempt ANY TWO parts.		
а	Draw and give the typical flow of information on mobile devices.		
b	Give an example of a scenario for the personal movie player.	5	CO
C	list out the various tasks for determining the user interface for Library	5	CO
	Mahagement System (LMS). What data collection technique would be most suitable to identify the user requirements in LMS- Justify?	5	CO
5 /	Attempt ANY TWO parts.		
E	xplain how can you implement Shneiderman's eight golden rules to esign an efficient interface.	5	COS
G	ive a brief note about different widget supports and interface features	the lower are made at 100 feature made a feature made	
51	apported in user-interface building tools.	5	COS
E:	camine the principles affecting learnability in detail. Give the summary f principles affecting flexibility.	5	COS



## Degree: B. Tech. Semester: VII - Course work END-SEMESTER EXAMINATION, Nov-Dec 2023

Course Title: Service Oriented Architecture
Course Code: COCSE50

Time: 03 Hours

Max. Marks: 50

Note: - Attempt all the five questions. Missing data/ information (if any), maybe suitably assumed & mentioned in the answer.

Q. No.	Question	Marks	C
QI	Attempt any 2 parts of the following		100
la	List out the web services provided by WSDL.	5	CO
1b			CO
lc	"Feedback at different levels" is one of the advantage of SOA.  Discuss how it has been achieved.	5	СО
Q 2	Attempt any 2 parts of the following		
2a	An application named "Automated Hiring System" has to be developed. One of the service is "Score Generator" that generates the final score of every test given by applicants and stores it in the backend. Explain the working of that service.	5	CO
2b	Demonstrate the working example of WSDL.	5	CO
2c	Distinguish the services provided by traditional architecture and SOA.	5	COI
Q3	Attempt any 2 parts of the following		
3a	List out the technical challenges faced by SOA.		00.
3b	models.	5	CO <sub>2</sub>
3c	Identify the process of finding the path of a message in SOAP.		
Q 4	tetempt ally 2 parts of the following	5	CO2
4a	List out the points how creation of a hydronic		
4b	"Movie Catalogue Service":	5	CO5
4c	"Movie Catalogue Service" is a central catalogue service that contains information about available movies, including Showtime's, synopses, and cast details for "Movie Ticket Booking" platform.  Explain that service.  Demonstrate the process of Fire-and-Forget MEP.	5	CO4
25		5	CICIC
a	Entity-centric services		COS
00	Discuss the publish and a little	5	CO <sub>2</sub>
c	Discuss the publish-and-subscribe messaging model. "Notification Service" is a service that sends confirmation and reminder notifications for "Hotel Management of the service of the serv		
	reminder notifications of "" sa service that sends confirmation		CO3
	reminder notifications for "Hotel Management and Booking"	-	COS