

Code: 20CS4703C

**IV B.Tech - I Semester – Regular / Supplementary Examinations  
OCTOBER 2024**

**USER INTERFACE DESIGN  
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.  
2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

			BL	CO	Max. Marks
<b>UNIT-I</b>					
1	a)	Explain about Principles of user interface design.	L2	CO1	7 M
	b)	Compare and contrast graphical user interface and web user interface with suitable examples.	L2	CO1	7 M
<b>OR</b>					
2	a)	Discuss about the importance of good design.	L2	CO1	7 M
	b)	Describe the major milestones that have shaped the evolution of screen design.	L1	CO1	7 M
<b>UNIT-II</b>					
3	a)	Discuss about how do users typically respond to poor design and what impact does this have?	L2	CO1	7 M

	b)	Identify the primary reasons why people struggle with using computers?	L2	CO1	7 M
<b>OR</b>					
4	a)	Explain the key human considerations in design.	L2	CO4	7 M
	b)	Generalize how can human interaction speeds influence design decisions and why are they important?	L2	CO4	7 M
<b>UNIT-III</b>					
5	a)	Explain how the groupings can be made using Borders and Backgrounds.	L2	CO3	7 M
	b)	Classify key principles of effective screen navigation and flow and how do they support user tasks?	L2	CO3	7 M
<b>OR</b>					
6	a)	Identify what are the screen elements can be included to make screen effective.	L1	CO3	7 M
	b)	Analyze the primary purpose of a screen or web page. How should its design reflect this purpose?	L4	CO3	7 M
<b>UNIT-IV</b>					
7	a)	Describe how do different window components contribute to the overall functionality of an interface.	L2	CO1	7 M
	b)	Explain the characteristics that makes an icon effective. How do icons influence usability?	L2	CO1	7 M

<b>OR</b>					
8	a)	List and explain the colors that should be chosen for different categories of information.	L1	CO3	7 M
	b)	Discuss about what are the guidelines should be followed when choosing colors for web pages.	L2	CO3	7 M
<b>UNIT-V</b>					
9	a)	Discuss about the primary advantages of using speech and auditory interfaces in human-computer interaction.	L2	CO1	7 M
	b)	Compare and contrast membrane, mechanical and virtual keypads.	L2	CO1	7 M
<b>OR</b>					
10	a)	Explain the advantages and disadvantages of using a touchscreen as a direct control pointing device.	L2	CO2	7 M
	b)	Identify the key considerations in designing speech interfaces to ensure accurate recognition and user satisfaction.	L2	CO2	7 M