

# CBCS SCHEME

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18CS734

## Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 User Interface Design

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Define User Interface. Discuss the benefit of good design. (10 Marks)  
b. Discuss the characteristics of the Graphical User Interface. (10 Marks)

OR

- 2 a. Compare GUI versus Web Page Design with respect to Devices, Data, Presentation Elements, Navigation, User tasks. (10 Marks)  
b. Discuss the following general principles of user interface  
i) Aesthetically pleasing      ii) Compatibility      iii) Consistency  
iv) Control      v) Simplicity. (10 Marks)

### Module-2

- 3 a. List and explain common usability problems in graphical systems. (10 Marks)  
b. Discuss any five Human characteristics in interface design. (10 Marks)

OR

- 4 a. Explain Indirect methods of requirement determination in Business Function. (10 Marks)  
b. Discuss briefly the guidelines for designing conceptual models. (10 Marks)

### Module-3

- 5 a. List and explain different structures of Menus with suitable diagrams. (12 Marks)  
b. Discuss Functions and content of Menus. (08 Marks)

OR

- 6 a. Explain the purpose, advantages, disadvantages, guidelines to be followed in designing following menu choices. i) Mark Toggles ii) Toggled Menu Items. (08 Marks)  
b. Discuss in detail the following Graphical menus  
i) Pull – Down Menu      ii) Cascading Menus      iii) Popup Menus. (12 Marks)

### Module-4

- 7 a. List and discuss in different ways, windows are useful. (12 Marks)  
b. Explain filed windows, overlapping windows, and cascading windows their advantages and disadvantages. (08 Marks)

OR

- 8 a. Explain model and modeless and cascading and unfolding windows. (08 Marks)  
b. Explain the following with respect to windows  
i) frame      ii) Window sizing Buttons      iii) Scroll bars      iv) Split box. (08 Marks)  
c. Describe Joystick with advantages and disadvantages. (04 Marks)

### Module-5

- 9 a. Explain different command button guide lines. (12 Marks)  
b. Describe check boxes, list boxes, palettes with advantages and disadvantages. (08 Marks)

OR

- 10 a. List common presentation controls and discuss any four of them. (08 Marks)  
b. Explain the following kinds of tests  
i) Cognitive walk through      ii) Think-Aloud Evaluations      iii) Usability Test. (12 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.