



## MID ~~End~~ Semester (Odd) Examination Theory., November 2025

Roll no. 2294023

Name of the Course: B.Tech (CSE)

Semester: VII

Name of the Paper: *Human Computer Interaction*

Paper Code: TCS 756

Time: 1.5 hour

Maximum Marks: 50

### Note:

- (i) Answer all the questions by choosing any one of the sub-questions
- (ii) Each question carries 10 marks.

Q1. (10 Marks)

- a. Explain how the popularity of web user interfaces has changed design principles. Discuss characteristics that make a web interface effective, keeping human interaction in mind. (CO 2)

OR

- b. Illustrate with examples how poor user interface design can negatively impact system usability, performance, and business outcomes. Suggest how human-centered design could prevent such issues. (CO 3)

Q2. (10 Marks)

- a. Trace the brief history of screen design and explain how technological evolution and human interaction principles have shaped today's graphical user interfaces. (CO 5)

OR

- b. Explain the importance of understanding human interaction speeds in interface design. Discuss how this factor influences response time, feedback mechanisms, and task efficiency. (CO 1)

Q3. (10 Marks)

- a. Explain the importance of User Interface (UI) design in modern computing systems. Discuss how understanding human characteristics and business functions contributes to effective interface design. (CO 1)

OR

- b. Discuss how human characteristics and limitations (such as perception, attention, and memory) affect the process of designing interactive computer systems. Give examples from modern GUIs. (CO 4)

Q4. (10 Marks)

- a. Explain the principles of good user interface design. How do these principles align with human factors like perception, learning, and cognitive load? (CO 4)

OR

- b. Describe the evolution of graphical systems and their impact on the way users interact with modern devices. Relate your answer to user satisfaction and design principles. (CO 3)

Q5. (10 Marks)

- a. Explain the relationship between human-computer interaction (HCI) and UI design. How does knowledge of human speeds and reactions guide design decisions? (CO 1)

OR

- b. Define User Interface and discuss the benefits of good UI design. How do human interaction speeds and human considerations influence the overall usability of a system? (CO 2)