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Roll No.

TCS-756

B. TECH. (CSE) (SEVENTH SEMESTER)

MID SEMESTER

EXAMINATION, Oct., 2023

HUMAN COMPUTER INTERACTION

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Discuss what a good user interface means and why it's important in today's computer systems. Point out the possible problems that can come from a badly designed interface and explain how a well-designed one can be beneficial for both businesses and the people using it. (CO1)

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OR

- (b) Discuss about how the improvements in screen design have gone hand in hand with advancements in technology and changes in what society needs, and how they've affected the way users experience it. (CO1)
2. (a) The graphical user interface changed how people use computers. Take a close look at why graphical systems became so popular, especially focusing on the parts played by graphics and the concept of direct manipulation. Talk about how these things worked together to make graph systems easier to use and more opted by people. (CO2)

OR

- (b) Discuss why web user interfaces have become so popular lately. Talk about the main features that have helped them become widely used and how these features match up with the basic principles of designing a user interface. Give examples of some websites that showcase these features well. (CO2)

3. (a) Explain the basic principles of designing a user interface. Show how following these principles can create a smoother, more successful, and enjoyable user experience. If possible, use case examples to highlight situations where these principles were either followed or ignored, and discuss the effects of both. (CO2)

OR

- (b) Discuss about how the relationship between humans and computers has changed over time. Show how the process of creating these systems considers human traits and needs to make using them smoother and more intuitive. Back up your discussion with appropriate theories or models that are known in the human-computer interaction field. (CO2)
4. (a) Write the importance of incorporating human characteristics into the design process. Discuss how an understanding of human interaction speeds can significantly influence the efficiency of a system. (CO1)

OR

- (b) Analyze the role of human consideration in the design process. Discuss how acknowledging the individuality and diversity among users can lead to more inclusive and effective design solutions.

(CO1)

5. (a) Discuss the concept of "business junctions" in the context of design processes. How does understanding business junctions contribute to designing systems that cater to the needs and expectations of various stakeholders? Provide real-life examples to substantiate your answer.

(CO2)

OR

- (b) Evaluate the concept of "Human interaction speeds" in the context of design processes. Discuss how considering interaction speeds can impact the overall user experience and how it should influence the design of contemporary computer systems.

(CO2)