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**Roll No. ....**

**TCS-756**

**B. TECH. (CSE) (SEVENTH  
SEMESTER) END SEMESTER  
EXAMINATION, Dec., 2023  
HUMAN COMPUTER INTERACTION**

**Time : Three Hours**

**Maximum Marks : 100**

- Note :** (i) All questions are compulsory.  
(ii) Answer any *two* sub-questions among (a), (b) and (c) in each main question.  
(iii) Total marks in each main question are **twenty**.  
(iv) Each sub-questions carries 10 marks.
1. (a) State the characteristics and principle of user interphase. (CO1)  
(b) What is the relationship between software development Life cycle and Human Computer Interaction ? Explain with the help of diagrams. (CO1)

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- (c) What is the importance and benefit of a good design ? (CO1)
2. (a) Write a detailed note on components of HCI. (CO2)
- (b) State the important human characteristics in Design. (CO2)
- (c) Explain Human Interaction Speed. (CO2)
3. (a) Outline the evolution of screen design and supplement your answer with a relevant diagram. (CO3, CO4)
- (b) Explain the criteria for choosing between device-based and screen-based controls.
- (c) Detail the standards and guidelines that are fundamental to Human-Computer Interaction (HCI). (CO3, CO4)
4. (a) Identify the different tools used for constructing software interfaces. (CO4)
- (b) Analyze the tasks and dialogues in a relevant HCI system, with reference to task analysis and dialogue design. (CO4)

(3)

(c) Describe the respective abilities of humans and computers in terms of Human Information Processing. (CO4)

5. (a) Elucidate the fundamental principles governing user interface design. (CO5)

(b) Detail the criteria for selecting news and navigation schemes in windowed interfaces. (CO5)

(c) Discuss the methodology for organizing screen data and content effectively. (CO5)