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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)