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**Presidency University**

**Bengaluru**

**School Of Computer Science and Engineering & Information Science**

**Summer term End-Term Examinations, August 2024**

**Date**: 05/08/2024

**Time**: 1:00pm to 4:00 PM

**Max Marks**: 100

**Weightage**: 50%

**Odd Semester**: 2023 - 24

**Course Code**: CSE3128

**Course Name**: Human Computer Interaction

**Department: SOCSE**

**Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Do not write any matter on the question paper other than roll number.*

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| **Q.No** | **Questions** | **Marks** | **CO** | **RBT** |
| 1 | 1. What is Human Computer Interaction and list any list any 2 goals of Human Computer Interaction? | 4 | CO1 | L1 |
| 1. Compare deductive reasoning, inductive reasoning and abductive reasoning | 6 | CO1 | L2 |
| 1. Identify the difference between gestalt theory, problem space theory and analogy in problem solving | 10 | CO1 | L3 |
| OR | | | | |
| 2 | 1. What is cognition and list types of cognition? | 4 | CO1 | L1 |
| 1. Explain Norman’s Model of Interaction? | 6 | CO1 | L2 |
| 1. Identify the differences between Internal and External Cognitive Frameworks in detail? | 10 | CO1 | L3 |

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| 3 | 1. List the difference between Interaction Design and Human Computer Interaction | 4 | CO2 | L1 |
| 1. Explain Foley and Van Dam Four Level Approach | 6 | CO2 | L2 |
| 1. Identify the Various differences between Conceptual Design and Physical Design | 10 | CO2 | L3 |

OR

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| 4 | 1. What is Participatory Design? | 4 | CO2 | L1 |
| 1. Explain Low and High-Fidelity Prototyping? | 6 | CO2 | L2 |
| 1. Identify the pillars of Design and explain in detail? | 10 | CO2 | L3 |

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| 5 | 1. Define Usability Testing? | 4 | CO3 | L1 |
| 1. Explain Expert Reviews and User Acceptance Testing | 6 | CO3 | L2 |
| 1. Identify the various principles of Usability and explain in detail? | 10 | CO3 | L3 |

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| 6 | 1. List the benefits of Usability Testing? | 4 | CO3 | L1 |
| 1. Explain Evaluation during Active use? | 6 | CO3 | L2 |
| 1. Identify the differences between Survey Instruments, Expert Reviews and User Acceptance Testing? | 10 | CO3 | L3 |

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| 7 | 1. List the goals of collaboration? | 4 | CO4 | L1 |
| 1. Compare Speech Recognition and Speech Synthesis in detail | 6 | CO4 | L2 |
| 1. Identify various Universal Design principles and explain in detail? | 10 | CO4 | L3 |

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| 8 | 1. What is Speech Recognition and list types of Speech Recognition? | 4 | CO4 | L1 |
| 1. Compare the Synchronous and Asynchronous distributed Interfaces? | 6 | CO4 | L2 |
| 1. Identify various factors in human speech and explain in detail? | 10 | CO4 | L3 |

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| 9 | 1. Define Gulf of Execution and Gulf of Evalaution? | 4 | CO1 | L1 |
| 1. Explain the role of Ergonomics in Human Computer Interaction? | 6 | CO1 | L2 |
| 1. Case study – ‘Tourist India’ is a tourism website which provides information regarding various tourist places in India. The website wants to make an updation to provide virtual tour of tourist places to their web users. For that an interface development team was selected to design virtual tours. Improving Information Visualization is the main theme of updating the website.   Assume that you are one of the team selected for updating the website. Suggest the Guidelines which you will follow to make your project successful and mention why those Guidelines are to be followed. | 10 | CO1 | L3 |

OR

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| 10 | 1. What is Conceptual Model and list the perspectives of Conceptual Model? | 4 | CO2 | L1 |
| 1. Explain Social Impact Statement for human computer interaction? | 6 | CO2 | L2 |
| 1. Case study – A leading bank wanted to automate their front office management through a website. The front office consists of account maintenance, Loan ledger, Card maintenance (Credit& Debit). The automation system will be finalized only after the evaluation by expert review team.   Assume that you are one of evaluation team and an expert reviewer. As an expert reviewer suggest the expert review methods which you will follow to evaluate the interface and give explanation why those methods are needed. | 10 | CO2 | L3 |