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PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

MAKEUP EXAMINATION - JULY 2024

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| **Semester : 6** | **Date : 02/07/24** |
| **Course Code : CSE3128** | **Time : 9.30AM-12.30 PM** |
| **Course Name : Human Computer Interaction** | **Max Marks : 100** |
| **Program : B Tech** | **Weightage : 50%** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Question paper consists of 3 parts.*
3. *Scientific and non-programmable calculator are permitted.*
4. *Do not write any information on the question paper other than Roll Number.*

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| **PART A** | | | |
| **ANSWER ANY 4 QUESTIONS 4Q X 5M=20M** | | | |
| 1 | Define Human Computer Interaction and list any 2 goals of HCI? | (CO 1) | [Remember] |
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| 2 | Define Cognition and list out the types of Cognition? | (CO 1) | [Remember] |
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| 3 | List the stages involved in Normans Model of Interaction? | (CO 2) | [Remember] |
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| 4 | What are the steps involved in the process of Design? | (CO 2) | [Remember] |
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| 5 | What is Acceptance Testing? | (CO 3) | [Remember] |
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| 6 | List out the Human Factors in Speech? | (CO 4) | [Remember] |

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| **PART B** | | | |
| **ANSWER ANY 5 QUESTIONS 5Q X 10M=50M** | | | |
| 7 | Compare and contrast between gestalt theory, problem space theory and analogy in problem solving. | (CO 1) | [Understand] |
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| 8 | Explain the role of ergonomics in designing interfaces. | (CO 1) | [Understand] |
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| 9 | Distinguish Low level and High-level Prototyping? | (CO 2) | [Understand] |
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| 10 | Explain Usability Testing and its Principles? | (CO 3) | [Understand] |
| 11 | Explain Speech Recognition and Speech Synthesis? | (CO 4) | [Understand] |
| 12 | Distinguish Synchronous and Asynchronous distributed interfaces? | (CO 4) | [Understand] |
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| 13 | Explain the Four Pillars of Design? | (CO 2) | [Understand] |
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| **PART C** | | | |
| **ANSWER ANY 2 QUESTIONS 2Q X 15M=30M** | | | |
| 14 | 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. | (CO 3) | [Apply] |
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| 15 | Case study – Presidency University is conducting a competition for their students, for which students have to design website for university. The best web design will be finalized as the winner and it will be considered as university official website.  Assume that you are one of the people participating in the competition and suggest the guidelines that you implement for designing your interface and give reasons. | (CO 2) | [Apply] |
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| 16 | Case study – “User Interface designing “is a lab-based course in presidency university. In User interface designing lab students need to develop User Interfaces for web-based project by following all the guidelines and principles of designing interfaces. The evaluation of the interfaces will be done based on interface satisfying all the rules, principles and guidelines of designing interfaces. If the project is unable to satisfy any one of the guidelines or principles it will be rejected.  Assume that you are a student registered for User Interface designing lab course. Suggest the Guidelines which you will follow to make your project successful and mention why those Guidelines are to be followed. | (CO 2) | [Apply] |