

## ADMISSION NUMBER

## School of Computing Science and Engineering B.TECH in Artificial Intelligence and Data Science

Semester End Examination - Nov 2023

**Duration: 180 Minutes** Max Marks: 100

## Sem VII - CSAI4701 - Human Computer Interaction

**General Instructions** Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	State the concept of Ergonomics	K1 (2)
2)	Recognize the contrasts between the concepts of usability and user experience (UX) in the context of HCI. How do they influence each other?	K2 (4)
3)	Summarize the challenges and opportunities of designing user interfaces for emerging technologies, such as autonomous vehicles or smart home devices.	K2 (6)
4)	Classify the nuances between dragged object versus drop target.	K3 (9)
5)	Interpret the role of beta testing in collecting user feedback before the official release of a mobile application.	K3 (9)
6)	Weigh the importance for websites and apps to have big buttons and clear text, especially for younger users.	K5 (10)
7)	Deconstruct the model of human memory with diagram	K4 (12)
8)	Justify the features of an interface for a meditation app that promotes relaxation and mindfulness, providing calming visuals and soothing audio.	K5 (15)
9)	Elaborate on the principles underlying the creation of personae and the development of scenarios within the design process.	K5 (15)
10)	Create a gesture-based control system for a home automation application, allowing users to manage smart devices with intuitive hand movements. Give vivid description with sample use cases.	K6 (18)