

Reg. Number: 22BCE [38

Continuous Assessment Test (CAT) – I – JAN 25

Program	:	B.Tech (CSE)	Semester	:	Winter Semester 2024-2025
Course Code & Course Title	:	BCSE415L - Human Computer Interaction	Class Number	:	CH2024250502029 CH2024250502036
Faculty	;	Dr. J. Prassanna Dr. Vidhya Lakshmi M	Slot	:	C2+TC2
Duration	;	1½ Hours	Max. Mark		50

General Instructions:

• Write only your registration number on the question paper in the box provided and do not write other information.

Answer all questions

Q. No	Description	
1	It is commonly stated that the human mind can remember 7 (± 2) chunks of information. Discuss the validity of this claim and provide two examples where it has been misapplied in computer interface design.	10
2	Assume that Indian Railways plans to develop 'Rail Yatri Guide,' a touchscreen kiosk serving as a single-point inquiry station for passengers. It will provide navigation assistance and access to various railway station facilities. As a user interface (UI) designer for this kiosk, develop a hierarchical task analysis (HTA) diagram for your UI design plan. Additionally, critically analyze the implications of Fitts' Law on the interface design.	10
3	You are designing a user interface (UI) for an interactive learning platform that simulates a virtual science lab for high school students. The platform allows students to conduct experiments, analyze results, and collaborate in a virtual environment. In a chemistry experiment, students mix compounds, observe reactions, and record outcomes within the virtual lab. Design a suitable UI to meet these requirements and identify the essential input and output devices for an immersive and accessible learning experience. Justify your choices.	

