



SCAN ME

Join 'VIT Question Papers' Today By Scanning The QR Or By Simply Searching It On Telegram App



VIT

Vellore Institute of Technology

Continuous Assessment Test – I

Programme Name & Branch: B. Tech. (CSE)

Course Name & Code: Human Computer Interaction (CSE 4015)

Class Number: VL2019205002788

VL2019205006308

Slot: E1 + TE1

Exam Duration: 90 Mins

Maximum Marks: 50

Answer All Questions (5 × 10 = 50)

Q.No	Question	Marks
1	What input and output devices would you use for the following systems? For each, compare and contrast alternatives, and if appropriate indicate why the conventional keyboard, mouse and CRT screen may be less suitable. (a) Portable Word Processor (b) Tourist Information System (c) Tractor-mounted Crop-Spraying Controller (d) Air Traffic Control System (e) Worldwide Personal Communications System	10
2	Enumerate and elaborate the current devices applied for Virtual Reality and 3D Interaction	10
3	<u>Scenario:</u> Imagine you are programming a VCR from a remote control. For the above said scenario draw and correspond the interaction framework and show how the four translations in the interaction cycle can affect the overall interaction.	10
4	An analysis of the emergency services responding to a hazardous chemical incident need to be performed. In the scenario analysed, some youths had broken into a farm and disturbed some chemicals in sacking. One of the youths had been taken to the hospital with respiratory problems, whilst the others were still at the scene. The police were sent to investigate the break-in at the farm. They called in the fire service to identify the chemical and clean up the spillage. The overall analysis shows four main sub-goals: receive notification of an incident, gather information about the incident, deal with the chemical incident, and resolve incident. <i>Perform a hierarchical task analysis for the above scenario. [Hint your answer should demonstrate all features of HTA Notations such as Selection, Iteration, Sequence and Unit task]</i>	10 (2.5+2.5+2.5+2.5)

5

Mention the type of the device, its characteristics and usage of the given below devices.

10

Device	Type	Characteristics	Usage
Keyboard Track Pointer			
Eye gaze			
Cloud Key Board			
Desktop VR			
Data Gloves			