

Code No: 155GK**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, March - 2024****DESIGN OF INTERACTIVE SYSTEMS****(Computer Science and Design)****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) What are the rules for data entry? [2]
- b) What are HCI guidelines? [3]
- c) What is the concept of usability testing? [2]
- d) Describe the Participating Design Scenario Development. [3]
- e) What is meant by virtual environment? [2]
- f) List the Benefits of Structure. [3]
- g) What do you mean by speech recognition? [2]
- h) Write about the Keyboards and Functions. [3]
- i) What are human interface objects? [2]
- j) Write about Asynchronous Interaction. [3]

PART – B**(50 Marks)**

- 2.a) Explain the Motivations of Human factors in Design.
 - b) Describe the High Level Theories. [5+5]
- OR**
3. Discuss in detail about the Goals of User Interface Design. [10]
 4. Explain the Organizational Design to Support Usability. [10]
- OR**
5. Describe the Social Impact Statement for Early Design. [10]
 - 6.a) Difference between direct manipulation and indirect manipulation.
 - b) Describe the Item Presentation Sequence. [5+5]
- OR**
- 7.a) What is the difference between user goals and user tasks? Explain.
 - b) Explain the Evolution of Direct Manipulation. [5+5]
 8. What do you mean by non-anthropomorphic design? Explain in detail. [10]
- OR**
- 9.a) Give a brief note on Digitization and Generation.
 - b) Discuss about Pointing Devices. [5+5]

- 10.a) Explain the Individual Window Design and Multiple Window Design. [5+5]
b) Discuss the Object Action Interface Model for Web site Design.

OR

11. Describe the Database query and phrase search in Textual documents. [10]

---oo0oo---

Used Papers March-2024