

R18

Code No: 158BE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech IV Year II Semester Examinations, July - 2023

HUMAN COMPUTER INTERACTION

(Common to CSE, IT)

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) Explain the importance of User Interface. [2]
- b) Discuss the importance of Good Design. [3]
- c) Write a brief note on Statistical Graphics. [2]
- d) Explain briefly about Human Interaction Speeds. [3]
- e) Define Multimedia. [2]
- f) Write a brief note on choosing colors. [3]
- g) Write a short note on prototyping. [2]
- h) Explain briefly about Design rationale. [3]
- i) Write a short note on GOMS saves money. [2]
- j) Explain briefly about Ubiquitous computing. [3]

PART – B

(50 Marks)

- 2.a) Discuss in detail the benefits of Good Design.
- b) Discuss in detail about Web User. [5+5]

OR

- 3.a) Explain in detail the concept of Direct Manipulation.
- b) Discuss in detail the Characteristics of a Graphical System. [5+5]

- 4.a) Write a detailed note on organizing screen elements.
- b) Discuss in detail about the Understanding of Business Junctions. [5+5]

OR

- 5.a) Discuss in detail about information retrieval on web.
- b) Write a detailed note on visually pleasing composition. [5+5]

6. What is a Component? Discuss in detail about Text and Messages. [10]

OR

7. Write a detailed note on selection of devices based and screen-based controls. [10]

QA QA QA QA QA QA QA G

- 8.a) Explain in detail about Principles to support usability.
- b) Discuss in detail the HCI patterns Evaluation techniques.

[5+5]

QA QA QA QA QA QA QA QA QA G

OR

- 9.a) Write a detailed note on Golden rules and heuristics in Design rules.
- b) Discuss in detail about Multi-modal interaction.

[5+5]

- 10.a) Write a detailed note on The challenge of display-based systems.
- b) Discuss in detail about Ambient Wood – augmenting the physical.

[5+5]

OR

QA QA QA QA QA QA QA QA QA G

- 11.a) Explain in detail about Virtual and augmented reality.
- b) Write a detailed note on Information and data visualization.

[5+5]

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QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G