

B.Tech IV Year I Semester (R13) Supplementary Examinations June 2017

**HUMAN COMPUTER INTERACTION**

(Common to CSE and IT)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Explain the benefits of good design.
  - What are the goals of user interface?
  - Explain advantages of graphical system.
  - What is the importance of information processing in designing screen interface?
  - List different types of windows.
  - What are design standards of a user interface?
  - What are operable controls?
  - Explain selecting proper controls.
  - Write short notes on choosing colors for textual graphics screen.
  - Explain the scope of testing.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- Explain history of screen design.
  - Discuss the principles of user interface.
- OR**
- What are the characteristics that direct manipulation should possess?
  - Explain differences between GUI and Web Interface design.

**UNIT – II**

- List and explain the 10 common visibility problems in graphical interface.
- Discuss human interaction speeds in designing of interface.

**OR**

- What are human considerations in designing screen design? Explain.
- Explain the importance of statistical graphics in designing interface.

**UNIT – III**

- Discuss the characteristics of an window.
- Explain organization of window system function in detail.

**OR**

- Explain the different components of an window.
- Explain windows presentation styles.

**UNIT – IV**

- Discuss device based control characteristics.
- Explain Text / Read - only controls.

**OR**

- Explain how do we select the proper devices based on controls.
- Explain the combination Entry / Selection controls.

**UNIT – V**

- What is color? Explain the relationship between color and human vision.
- Explain the importance of Icon in the designing of user interface.

**OR**

- What is testing? Explain the purpose and importance of usability testing.
- Discuss about the developing and conducting the test in detail.

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