

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)
- (a) Explain the benefits of good design.
  - (b) What are the goals of user interface?
  - (c) Explain advantages of graphical system.
  - (d) What is the importance of information processing in designing screen interface?
  - (e) List different types of windows.
  - (f) What are design standards of a user interface?
  - (g) What are operable controls?
  - (h) Explain selecting proper controls.
  - (i) Write short notes on choosing colors for textual graphics screen.
  - (j) Explain the scope of testing.

**PART – B**

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

**UNIT – I**

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

**UNIT – II**

- 4 (a) List and explain the 10 common visibility problems in graphical interface.  
(b) Discuss human interaction speeds in designing of interface.
- OR**
- 5 (a) What are human considerations in designing screen design? Explain.  
(b) Explain the importance of statistical graphics in designing interface.

**UNIT – III**

- 6 (a) Discuss the characteristics of an window.  
(b) Explain organization of window system function in detail.
- OR**
- 7 (a) Explain the different components of an window.  
(b) Explain windows presentation styles.

**UNIT – IV**

- 8 (a) Discuss device based control characteristics.  
(b) Explain Text / Read - only controls.
- OR**
- 9 (a) Explain how do we select the proper devices based on controls.  
(b) Explain the combination Entry / Selection controls.

**UNIT – V**

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

**OR**

- 11 (a) What is testing? Explain the purpose and importance of usability testing.  
(b) Discuss about the developing and testing of user interface.

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