

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 110670

Roll No. 1203210082

B. TECH.

Theory Examination (Semester-VI) 2015-16

HUMAN COMPUTER INTERFACE

Time : 3 Hours

Max. Marks : 100

Section-A

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10 = 20)

- (a) Discuss the chronological history of internet.
- (b) How menu choices can be selected ? Explain (c) What are unavailable menu choices, toggled menu items and mark toggles?
- (d) Compare the application oriented approach and object-oriented approach in designing GUI.
- (e) Discuss the following in respect of designing a website (i) browsing (ii) search facilities.

- (f) Discuss the history of screen design.
- (g) What is meant by extranet? How is it different from internet?
- (h) Compare the print page design and web page design.
- (i) What are the common message types ?
- (j) Compare 1970's screen and 1990's screen.

Section-B

2. Attempt any five parts. All parts carry equal marks :

(10×5 = 50)

- (a) Discuss the impact of inefficient screen design on processing time with an example.
- (b) Explain the role of software engineering tools in building the user interface.
- (c) Discuss the important human characteristics which have influence on interface and screen design.
- (d) What are the guidelines for selecting the proper device-based control?

(2)

- (e) Explain the details about the factors considered in choosing colors.
- (f) Discuss the following object relationship
 - (a) collection
 - (b) constraint
 - (c) composites.
- (g) Identify the characteristics and capabilities of the following device-based controls
 - (a) joystick
 - (b) track ball
 - (c) light pen.
- (h) Describes the following specification methods :
 - (a) grammars
 - (b) state charts.

Section-C

Note : Attempt any two questions from this section. (15×2=30)

3. Give a brief note about icon animation and audition. What are the issues to be considered in combining medium. Explain.

(3)

P.T.O.

4. Discuss the following :
- (a) Why speech technologies so important in multimodal interaction design, even for normal user? What can be the possible advantages and disadvantages when designing a speech interactive system?
 - (b) What are the function keys? Write its advantages?
5. What are the typical characteristics of proper screen based controls? Explain in details.