

University of Mumbai

B.E Fourth Year 2014 - 2015 November

Semester 8 (BE Fourth Year)

Human Computing Interaction

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- N.B :**
- (1) Question No. 1 is compulsory.
 - (2) Out of remaining questions, attempt any **four** questions.
 - (3) Draw neat **labeled** diagram wherever **necessary**.
 - (4) Answers to each new question to be started on a fresh page.

1. (a) What is HCI. Define the user interface and state the importance and benefits of good design. 5
- (b) Explain the factors by which user gets distract from the Computer System. 5
- (c) Describe different types of Secondary Window. 5
- (d) Distinguish between Model and Modeless Dialog box. 5
2. (a) Explain in details with suitable example about the following techniques determining requirement. Categorize them as Direct or Indirect method. 10
 - (i) Traditional Focus Group
 - (ii) Support Line
 - (iii) Card sorting for web sites
 - (iv) Competitor Analyses
 - (v) User Interface prototyping.
- (b) Explain with examples the Qualities of visually pleasing composition. 10
3. (a) Describe the different ways & means to provide an effective feedback while designing HCI application with suitable examples. 10
- (b) Explain the general principals of user interface design? 10
4. (a) Describe in brief the different types of Graphical Menus in HCI applications. 10
- (b) Explain Internationalization and Globalization / Localization concept to make the design of HCI Application internationally accessible. 10
5. (a) Apply HCI principles for designing the user interface for Automatic Ticket Vending Machine (ATVM) machine for ABC metro train . It should allow user to select the source and destination, to buy a ticket .Assume suitable data and screen elements and draw the interface. 10
- (b) Explain human consideration in screen design and also explain ordering of screen data and content. 10
6. (a) List the different device based and screen based controls and explain the guidelines for selecting screen based controls in brief. 10
- (b) Describe the different types of Windows Presentation Styles. 10
7. Write a short note on :— 20
 - (a) Typical Human Computer Interaction Speeds
 - (b) Designing for visually impaired
 - (c) Interface building tools
 - (d) guidelines for color selection for web page.