

Paper Id: 

110724
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**B.TECH**  
**(SEM-VII) THEORY EXAMINATION 2019-20**  
**HUMAN COMPUTER INTERFACE**

**Time: 3 Hours****Total Marks: 70****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief.** **2 x 7 = 14**
- a. Differentiate between keyboards and keypads.
  - b. How can we achieve Usability?
  - c. Compare and contrast between specificity and generality.
  - d. Explain Four pillars of design.
  - e. List the strategies for command organization.
  - f. Explain any two pointing devices in detail.
  - g. Define the term multidimensional data.

**SECTION B**

- 2. Attempt any three of the following:** **7 x 3 = 21**
- a. Discuss different advanced filtering and search techniques in detail.
  - b. What are the guidelines for alphanumeric displays, spreadsheets and Graph
  - c. Discuss the Social impact statement for early design review.
  - d. What is Heuristic Evaluation? Why is it used? Outline the steps involved for expert review.
  - e. What do you mean by Multimedia document? Discuss various challenges involved in searching a multimedia document.

**SECTION C**

- 3. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Compare and contrast between the Linear menus and Tree structured menus with examples.
  - (b) Explain various visual techniques required to augment visual pleasing composition of user screen.
- 4. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Describe choosing colors for statistical graphical screens.
  - (b) What are the advantages and disadvantages of online manuals?
- 5. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Explain three pillars of successful user interface development in detail.
  - (b) Explain the six stages of LUCID development methodology.
- 6. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Explain about online tutorials, demonstrations and guides.
  - (b) Explain the simple stages of action model of system response time and user think time
- 7. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Write short notes on the following:
    - i. Statistical graphics.
    - ii. Human interaction speeds.
  - (b) List few common mistakes of web-based display of information and explain.