

Paper Id:

110724

Roll No:

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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.