Paper Id: 110724 Roll No: | | | | | | | | | | |

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.

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