

Code: CS8T3A

**IV B.Tech - II Semester – Regular/Supplementary Examinations  
March 2020**

**HUMAN COMPUTER INTERACTION  
(COMPUTER SCIENCE AND ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1. a) Define Graphical system.
- b) State the role of user interface.
- c) Write the importance of HCI.
- d) Write the Obstacles in development path of design process.
- e) List the Common usability problems in the design process.
- f) What is the use of ordering of screen data?
- g) What is information retrieval on web?
- h) State the window characteristics.
- i) List the various components of a window.
- j) State the Fitt's law.
- k) Why digitization of speech is necessary?

## PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) “Success of a product/project depends on effective user Interface”. Discuss. 6 M
- b) Compare and contrast the graphical user interface and web user interface. 10 M
3. a) Discuss the important human characteristics which have influence on interface and screen design. 10 M
- b) Describe the Human Interaction Speeds in design process. 6 M
4. a) Analyze the various qualities of screen design, which provides visually pleasing composition and give suitable examples for each quality. 10 M
- b) Point out the Interface Design goals. 6 M
5. a) What are the factors upon which selection of the proper Input device depends? 6 M
- b) Identify the characteristics and capabilities of the following device-based controls. 10 M
- i) Track ball      ii) Light pen
6. a) Give a detailed note about direct control pointing devices. 8 M
- b) Distinguish between QWERTY and ABCDE style. 8 M