

# CBCS SCHEME

17CS832



## Eighth Semester B.E. Degree Examination, Feb./Mar. 2022 User Interface Design

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. Define user interface. Explain importance and benefits of good user interface design. (08 Marks)
- b. Explain in detail the characteristics of GUI. (08 Marks)
- c. Write any four (4) differences between GUI and webpage design. (04 Marks)

OR

- 2 a. Explain the concept of Direct and Indirect manipulation for graphical system. (08 Marks)
- b. Discuss the general principles of user interface design. (12 Marks)

### Module-2

- 3 a. Explain obstacles and pitfalls in the development path. (06 Marks)
- b. List and explain five (5) commandments in designing for people. (06 Marks)
- c. Define usability. Explain the common usability problems. (08 Marks)

OR

- 4 a. Describe in detail, the important human characteristics in design. (08 Marks)
- b. Explain few significant direct techniques for determining business requirements. (06 Marks)
- c. Explain the guidelines for designing conceptual model. (06 Marks)

### Module-3

- 5 a. Explain and illustrate structure of menus. (08 Marks)
- b. Describe the functions of menus. (06 Marks)
- c. List and explain formatting menus (any two). (06 Marks)

OR

- 6 a. Describe the components of a web Navigation system with illustration. (08 Marks)
- b. List all kinds of graphical menus and explain cascading menus in detail. (12 Marks)

### Module-4

- 7 a. Explain the components window with an example. (10 Marks)
- b. Discuss briefly the types of windows with example. (10 Marks)

OR

- 8 a. What are the different window management schemes? Discuss any one of the scheme. (06 Marks)
- b. Bring out the advantages and disadvantages of frames in web system. (05 Marks)
- c. Write note on the following: (09 Marks)
  - i) Track ball
  - ii) Joysticks
  - iii) Touch screen.

Module-5

- 9 a. What is operable controls? Explain usage of buttons along with their advantages and disadvantages. (10 Marks)
- b. Explain Radio Button and list boxes selection controls. (10 Marks)

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OR

- 10 a. Explain any two types of testing prototypes used in user interface design. (08 Marks)
- b. What is Test? List different kinds of tests and explain Cognitive Walk-Through, Think-Aloud evaluation and usability test conducted in user defined interface. (12 Marks)

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