

**B.TECH SEM – VII (2007 COURSE) (INF. TECH.) : WINTER -
2017**

SUBJECT : USER INTERFACE DESIGN

Day **Friday**
Date **19/01/2018**

Time **02.30 PM TO 05.30 PM**
Max. Marks : 80

W-2017-2590

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in the **SEPARATE** answer books.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.
- 4) Figures to the right indicate **FULL** marks.
- 5) Assume suitable data if necessary.

SECTION – I

- Q.1 a)** What are Gizmos? Explain imperative Gizmos. **[05]**
- b)** List and explain different UI types. **[05]**
- c)** List different applications of HCI. **[04]**
- Q.2 a)** What are the Golden Rules? What roles these rules are playing while designing user interfaces for a software product. **[07]**
- b)** Explain different GUI components. **[06]**
- Q.3 a)** State and explain Murphy's Laws of GUI design. **[06]**
- b)** How do menus affect the response time and display rate? Enlist the menu selection guidelines to be considered when designing menus. **[07]**
- Q.4 a)** Explain the technological advancements in Interaction Devices over the time. **[06]**
- b)** What do you mean by Interactivity? List different types of Interaction. **[07]**

SECTION – II

- Q.5 a)** How does the screen data and content is ordered? **[05]**
- b)** What is usable web? How web usability is tested. **[05]**
- c)** How accessibility testing is carried out. **[04]**
- Q.6 a)** List and explain advantages and disadvantages of User Centered Design. **[06]**
- b)** Explain the importance of screen planning. **[07]**
- Q.7 a)** Explain how user experience can be enhanced for websites. Discuss various steps. **[07]**
- b)** Explain the terms Groupware and co-ordination technology. **[06]**
- Q.8 a)** Design a navigation system for visually impaired person for moving from one place to another. The device / system should be wearable. The device / system may have GPS and it will guide a visually impaired person about directions. Assume suitable data if necessary. **[07]**
- b)** Explain video taping testing methodology and coordination technology. **[06]**

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