Code No: **20CS4703C**

**PVP20**

**PVP Siddhartha Institute OF TECHNOLOGY**

**(Autonomous)**

**IV B.Tech - I Semester Regular Examinations**

**USER INTERFACE DESIGN**

**Duration: 3 Hours Max. Marks: 70**

1. Note: This question paper contains 5 essay questions with an internal choice.
2. Each question carries 14 Marks.
3. All parts of Question paper must be answered in one place

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5 x 14 = 70 Marks

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|  |  |  | Blooms Level | CO | Max. Marks |
| **UNIT-I** | | | | | |
| 1 | (a) | Illustrate the History of Screen design? | 2 | CO1 | 7 |
| (b) | Compare the characteristics of GUI and Web user interfaces? | 2 | CO1 | 7 |
| **OR** | | | | | |
| 2 | (a) | Compare printed pages and Web pages? | 2 | CO1 | 7 |
| (b) | Explain the general principles of user interface design? | 2 | CO1 | 7 |
| **UNIT-II** | | | | | |
| 3 | (a) | Identify the important Human Characteristics which have influence on interface and screen design. | 3 | CO4 | 7 |
| (b) | Classify Human Interaction Speeds in design process? | 4 | CO4 | 7 |
| **OR** | | | | | |
| 4 | (a) | Analyze the psychological and physical user responses to poor design? | 4 | CO4 | 7 |
| (b) | Choose the attributes of Human Considerations in Design. | 3 | CO4 | 7 |
| **UNIT-III** | | | | | |
| 5 | (a) | Analyze the various qualities of screen design for visually pleasing composition and give suitable examples for each quality. | 4 | CO3 | 7 |
| (b) | Identify the way in which links aggravate the user. Discuss in detail Web Site Navigation Problems? | 3 | CO3 | 7 |
| **OR** | | | | | |
| 6 | (a) | Summarize the guidelines to present information on the screen simply and meaningfully? | 2 | CO3 | 7 |
| (b) | Classify the Ordering of screen data and content in Design? | 4 | CO3 | 7 |
| **UNIT-IV** | | | | | |
| 7 | (a) | List and explain any eight components of a window? | 2 | CO3 | 7 |
| (b) | Identify the characteristics and capabilities of the following device-based controls.  A) Joystick B) Light pen | 3 | CO3 | 7 |
| **OR** | | | | | |
| 8 | (a) | Categorize the characteristics of icons and Influences of Icon usability. | 4 | CO3 | 7 |
| (b) | Explain the uses of colors? | 2 | CO3 | 7 |
| **UNIT-V** | | | | | |
| 9 | (a) | Compare and Contrast Direct and Indirect control Pointing devices ? | 3 | CO2 | 14 |
| **OR** | | | | | |
| 10 | (a) | Choose the function keys to perform the following actions:  i)  **open a new tab**  **ii) R**efresh screen  iii) Activate menu bar of an open application. | 3 | CO2 | 7 |
| (b) | Explain Speech Generation? | 2 | CO2 | 7 |