

**B.TECH. SEM -V INFO. TECH. 2014 COURSE (CBCS) :**  
**SUMMER - 2018**  
**SUBJECT: ELECTIVE-I HUMAN COMPUTER INTERACTIONS**

Day: **Friday**  
Date: **25/05/2018**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 60

**S-2018-2363**

**N.B:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data if necessary.

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**Q.1** Discuss in detail importance and benefits of good design. **(10)**

**OR**

**Q.1** Describe human psychological factors affecting design of an interface. Explain with the help of an example. **(10)**

**Q.2** What are the principles of Web and Desktop User Interface? **(10)**

**OR**

**Q.2** What is direct manipulation? Explain the concept of direct manipulation. **(10)**

**Q.3** How human factors and limitations are vital factors in designing user interfaces. **(10)**

**OR**

**Q.3** How GUI elements are organized on Screen. Hence explain Screen planning, purpose and organization of different elements on Screen. **(10)**

**Q.4** What are technological constraints while designing user interfaces for the Web. **(10)**

**OR**

**Q.4** List and explain Golden Rules of User Interface Design. **(10)**

**Q.5** How different navigation components and schemes are selected? **(10)**

**OR**

**Q.5** Explain the facilities and functionalities provided by Interface building Tools. **(10)**

**Q.6** List and explain different interaction devices. What are the constraints in designing interfaces based on the pointing devices? **(10)**

**OR**

**Q.6** Design a user interface for a wearable "Navigation System" for physically challenged people. How a visually impaired person can use this system to reach the destination of his choice. The system will work on voice-based commands. **(10)**

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