6E 6028

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B.Tech. VI Semester (Main/Back) Examination, May-June 2015

rtuonline.com **Computer Science**

6CS6.3 Human Computer Interface

Common for IT

Time : 3 Hours   **Maximum Marks : 80**
Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting **one** question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*

Unit - I

1. a) Describe various input - output channels in human computer interaction and compair various text entry devices? **(16)**

OR

1. a) How do ergonomics affect the interaction between man and machine? Explain. **(8)**

   b) Explain Donald norman's model of interactions. **(8)**

Unit - II

2. Explain the design process in detail and also explain the difference between local structure and global structure. **(16)**

OR

2. Explain how can you implement shneiderman's eight golden rules to design an efficient interface. **(16)**

Unit - III

3. Explain **(16)**

   i) Evaluation through expert analysis.

   ii) Experimental evaluation.

OR

3. Explain the requirements of uses support system and approaches for the same. **(16)**

Unit - IV

4. What is the cognitive complexity theory? Explain. **(16)**

OR

4. Describe the physical and device models explain with the help of diagram? **(16)**

Unit - V

5. a) Explain knowledge based and ER based analysis differentiate between both? **(8)**

   b) What are the sources of information and data collection? **(8)**

OR

5. a) Explain all the basics of face to face communications and task based communications? **(8)**

   b) Distinguish between task analysis and other techniques? **(8)**

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