

6E 6028

Roll No. _____

[Total No. of Pages : 2]

6E6028

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

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 compare 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)