

6E6028

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B.Tech. VI Semester (Main/Back) Examination, April/May - 2017
Computer Sc. & Engg.
6CS6.3A Human Computer Interface
CS, IT

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 26

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 suitable be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Unit - I

1. a) Compare various test entry devices.
- b) How do ergonomics affect the interaction between man and machine? Explain. (6+10)

OR

1. a) State what are the causes and effects of emotions. (8)
- b) Explain various input-output channels. (8)

Unit - II

2. a) Explain : (8)
 - i) Process of design
 - ii) Usability Engineering
 - iii) User Focus
- b) Differentiate between local structure and global structure. (8)

OR

2. a) What are the principles to support learnability? (8)
- b) Explain low fidelity prototyping and high fidelity prototyping in details. (8)

Unit - III

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

OR

3. Explain : (8 × 2 = 16)

- i) Evaluation through expert analysis
- ii) Experimental evaluation.

Unit - IV

4. What is cognition? Explain cognitive architecture in detail. (16)

OR

4. Explain key stroke level models. Three state model and problem state model. (16)

Unit - V

5. Describe the main kind of social mechanism that are used by people to communicate and collaboration. (16)

OR

5. Explain knowledge based and ER based analysis Differentiate between both. (16)

