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Name.....

Reg. No.....

**SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, DECEMBER 2010**

IT 04 605—HUMAN COMPUTER INTERACTION

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

1. (a) Define : Thinking, Emotion.
- (b) Explain the concept of Ergonomics.
- (c) What is meant by Navigational design ?
- (d) Explain the principles to support usability.
- (e) Outline the socio-organizational issues related to Inter action models.
- (f) What are the uses of task analysis ?
- (g) What are discussion support systems ?
- (h) Discuss any one data visualization techniques.

(8 × 5 = 40 marks)

Part B

2. (a) (i) How physiology has impact in designing interactive systems ? (8 marks)
- (ii) With examples, explain pointing and positioning devices. (7 marks)

Or

- (b) (i) Explain the uses of sensors and special devices in HCI. (8 marks)
- (ii) Write note on WIMP. (7 marks)

3. (a) (i) What are the types of prototyping ? Explain. (8 marks)
- (ii) How to evaluate the intraction design ? (7 marks)

Or

- (b) (i) Explain usability 'Engineering' in detail. (8 marks)
- (ii) Discuss the features of Adaptive help systems. (7 marks)

4. (a) (i) Differentiate cognitive and linguistic models used in HCI. (10 marks)
- (ii) Explain Textual dialog notation with example in web application system. (5 marks)

Or

Turn over

- (b) (i) Compare the communication and collaboration models used for HCI in detail. (10 marks)
 (ii) What is dialog notation? Give example applications (any two). (5 marks)
5. (a) Write note on shared applications and artifacts. (15 marks)

Or

- (b) Explain ubiquitous computing realities and research. (15 marks)

[4 × 15 = 60 marks]