

Total No. of Questions : 8]

SEAT No. :

P3990

[5561]-695

[Total No. of Pages : 2

B.E. (Computer Engineering)
HUMAN COMPUTER INTERFACE (Elective - IV)
(2015 Pattern) (Semester - II) (410253B) (End Sem.)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to right indicate the marks to the question.*
- 3) *Assume suitable data whenever necessary.*

- Q1)** a) What is HCI? What is role of Psychology, Ergonomics, and Understanding in HCI? **[8]**
- b) Discuss about software life cycle in HCI? **[6]**
- c) What is a prototype? Explain different approaches to prototyping. Describe with suitable figures. **[6]**

OR

- Q2)** a) What are the basic human and computer abilities required for HCI? Explain any three of each in detail. **[8]**
- b) What is GOMS model? Explain it in detail. **[6]**
- c) Which are the various Implementation tools and Technologies used in HCI? Explain any two in detail. **[6]**
- Q3)** a) Discuss about Evaluation through user participation in details. **[6]**
- b) What are the requirements of user support system. **[6]**
- c) Explain Web Browsers by Considering following Terms: **[6]**
- i) Fonts
 - ii) Color Pallet
 - iii) Resolution
 - iv) Layout
 - v) Size
 - vi) Orientation

OR

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- Q4) a)** Explain Heuristic evaluation in detail? [6]
- b) Which are the different approaches to user modeling in knowledge representation in adaptive help system of user support. [6]
- c) Explain role of HCI in design of mobile device. [6]

- Q5) a)** Discuss about Predictive model in detail. [8]
- b) Discuss about CUSTOM and OSTA in context with social technical models in capturing requirements in an organization [8]

OR

- Q6) a)** Discuss about Cognitive model in detail. [8]
- b) What do you mean by stakeholders in any organization ? Which are the different categories of stakeholder? Classify stakeholders in airline booking system accordingly. [8]

- Q7) a)** What do you mean by Task Analysis? Which are three different approaches to task analysis? Explain each with suitable example. [8]
- b) Name any five diagrammatic notations used in dialog design? Explain any 2 in details with suitable example and figures. [8]

OR

- Q8) a)** Which are the sources of information and data collection in task analysis? What are the uses of task analysis ? Explain all in detail. [8]
- b) Write short note on any two of following [8]
- i) User Testing
 - ii) Usability Testing
 - iii) User Acceptance Testing

