P3990

[5561]-695

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

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

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