

Code No: **R42052****R10****Set No. 1****IV B.Tech II Semester Supplementary Examinations, April - 2018****HUMAN COMPUTER INTERACTION****(Common to Computer Science and Engineering and Information Technology)****Time: 3 hours****Max. Marks: 75**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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- 1 a) Discuss the brief history of screen design. [8]  
b) Discuss the impacts of inefficient screen design on processing times. [7]
- 2 a) What are the characteristics that differ in web interface and GUI? Explain. [7]  
b) Explain different factors the human computer interaction designers must consider. [8]
- 3 a) Explain about human interaction speed. [8]  
b) Explain guidelines for designing a conceptual model in business functions. [7]
- 4 a) Discuss about users tasks and needs which are important in user interface design. [8]  
b) Explain about various types of statistical graphs in brief. [7]
- 5 a) Explain about screen navigation and flow [7]  
b) Explain how to group screen elements meaningfully explain with example [8]
- 6 a) Explain choosing colors for categories of information. [7]  
b) List the characteristics of icons and explain the factors that influence icon usability [8]
- 7 a) Give a brief note about the features of user – interface building tools. [7]  
b) Describe the following specification methods. [8]  
(i) Grammars  
(ii) Transition diagrams.
- 8 a) What are the function keys? Explain the advantages of function keys? [7]  
b) Explain the six types of interaction tasks that are applicable by pointing devices [8]