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10MCA455

**Fourth Semester MCA Degree Examination, June/July 2013**  
**Principles of User Interface Design**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1 a. Explain any two-diversity factors which has to be considered by designer while designing user interface. (10 Marks)  
b. What are the different interaction styles which has to be considered using design principle? Explain each style with appropriate advantages and disadvantages. (10 Marks)
- 2 a. What are the guidelines available in  
i) Getting users attention  
ii) Facilitating data entry. (10 Marks)  
b. Explain three-pillars of design that can be used to build good user interface. (10 Marks)
- 3 a. Explain various forms of usability testing in detail. (10 Marks)  
b. Explain any two specification methods in detail. (10 Marks)
- 4 a. On what model the direct manipulation is based? Explain any three examples of direct manipulation in detail. (10 Marks)  
b. Discuss the problems with direct manipulation in detail. (10 Marks)
- 5 a. Explain the elements of form-fill-in along with appropriate example. (10 Marks)  
b. Explain command organization strategy in detail. (10 Marks)
- 6 a. For what tasks pointing devices are applicable and explain different direct control pointing devices. (10 Marks)  
b. Explain display technologies in detail. (10 Marks)
- 7 a. Explain the guidelines in specifying error messages. (10 Marks)  
b. Explain the challenges in information visualization. (10 Marks)
- 8 Write short notes on:  
a. Usability measures.  
b. Ethnographic observations guidelines.  
c. Evaluation and critiquing tools.  
d. Reading from paper versus from display disadvantages. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.