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13MCA355

Third Semester MCA Degree Examination, June/July 2017

Principles of User Interface Design

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Discuss in detail about requirements analysis goals. (10 Marks)
b. Explain the usability motivations for interface design. (10 Marks)
- 2 a. Write in detail about eight golden rules of interface design. (10 Marks)
b. Explain four pillars of interface design. (10 Marks)
- 3 a. Explain in detail any five forms of usability testing. (10 Marks)
b. Explain in detail about evaluation during active-use. (10 Marks)
- 4 a. Give examples of direct manipulation systems. Discuss briefly. (10 Marks)
b. What are the functionalities to be used to support the users tasks? Explain all the command organization strategies. (10 Marks)
- 5 a. Explain speech and auditory interfaces. (10 Marks)
b. What are the expectations, attitudes, productivity and frustrating experiences of the users? (10 Marks)
- 6 a. What is response time? Explain the variability in response time. (10 Marks)
b. What is error message? List and discuss the error message guidelines for end product. (10 Marks)
- 7 a. Why colors are so important in designing user interfaces? Explain all the guidelines to choose the colors. (10 Marks)
b. Explain search in textual documents and database querying. (10 Marks)
- 8 Write short notes on the following:
a. Single menus
b. Audio menus
c. Paper versus online manual
d. Advanced filtering (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.