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Third Semester MCA Degree Examination, Dec.2018/Jan.2019

## Principles of User Interface and Design

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain usability motivations in detail. (10 Marks)  
b. Explain the eight golden rules of interface design. (10 Marks)
- 2 a. Explain four pillars of user interface design. (10 Marks)  
b. What is ethnographic observation? Write guidelines for preparing evaluation field study analyzing and reporting. (10 Marks)
- 3 a. Briefly explain the variety of expert-review methods in evaluating multiple design. (10 Marks)  
b. Explain any five methods used in evaluation during active use. (10 Marks)
- 4 a. What are the problems in direct manipulation? Explain. (10 Marks)  
b. Briefly explain guidelines for menu layout and dialog box design. (10 Marks)
- 5 a. Explain abbreviation strategies and guidelines for using abbreviations. (10 Marks)  
b. Discuss the pointing tasks involved with pointing devices. (10 Marks)
- 6 a. Discuss the various models of response time impacts. (08 Marks)  
b. Explain user productivity. (04 Marks)  
c. What is meant by non- anthropomorphic design? Explain. (08 Marks)
- 7 a. What are the requirements for a personal role manager? (10 Marks)  
b. Compare and contrast reading from paper versus display. (10 Marks)
- 8 Write short notes on:  
a. Legal issues of user interface  
b. Virtual and Augmented reality  
c. Online tutorials  
d. Information visualization challenges (20 Marks)

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