

Code No: 09A70509

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech IV Year I Semester Examinations, June/July - 2014****DESIGN PATTERNS****(Computer Science and Engineering)****Time: 3 Hours****Max. Marks: 75****Answer any Five Questions
All Questions Carry Equal Marks**

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- 1.a) What is a Design Pattern? What are the uses of a Design Pattern?
- b) What is the difference between Delegation and Parameterized Types?
- c) Write notes on MVC.

2. Briefly explain the following of a Lexi design:
 - a) Formatting
 - b) Multiple Look-and-Feel Standards.
 - c) Spell checking and Hyphenation.

- 3.a) Explain the motivation of a Builder Design Pattern.
- b) What are the benefits and liabilities of a Builder Design Pattern?
- c) What are the uses of a Builder Design Pattern?

- 4.a) Draw the structure of Adapter Design Pattern.
- b) List the Participants of Adapter Design Pattern. Explain.
- c) What are the issues to be considered while implementing Adapter Design Pattern?

- 5.a) Explain Façade Design Pattern.
- b) Write notes on Proxy Design Pattern.

- 6.a) What is the purpose of Behavioral Design Patterns? What is the difference between Behavioral Patterns and Structural Design Patterns?
- b) What are the uses of Behavior Design Pattern?
- c) What are the applications of Behavioral Design Pattern? List some of the Behavioral Design Patterns.

- 7.a) Explain Sate Design Pattern.
- b) Write notes on Strategy Design Pattern.

8. Write notes on following:
 - a) Object Interfaces.
 - b) Application programs
 - c) The effect of Design Pattern on Object-Oriented Software.

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