Code No: 57054

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, December - 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 is the role of Design Pattern in software industry?
 b) Define MVC. What are the advantages of MVC?
 c) Give a brief note on organizing the catalog of the Design Pattern.

2.a) Explain Recursive Composition with a neat diagram.
 b) Define a widget. What is difference between Glyph and Monoglyph? Explain.
 c) Write short notes on spell-checking and Hyphenation.

3.a) Explain the Motivation of Abstract Factory with an example.
 b) What are the key consequences of Builder Design Pattern? Explain.
 c) Draw the Structure of Factory Method Design Pattern. List the participants of Factory Method and explain.

4.a) Draw the structure of Adapter Design Pattern. List the participants of Adapter Design Pattern and explain.
 b) List the implementation issues of Bridge Design Pattern and explain.
 c) Briefly explain Structural Design Pattern along with its advantages.

5. Explain Decorator Design Pattern in detail.

6.a) What is the Intent of Chain of Responsibility Design Pattern? What are the uses of Chain of Responsibility Design Pattern?
 b) Explain the collaborations of Command Design Pattern with a neat diagram.

7. Explain Observer Design Pattern in detail.

8.a) What are the similarities and differences between Patterns and Framework?
 b) Write short notes on Pattern Community.

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