R09

Code No: 09A70509

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November - 2013

Design Patterns

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

- 1.a) Describe the catalog of design patterns.
 b) Discuss how to use a design pattern for an application. [15]
 2. What are the design problems while designing a document editor? Discuss the role of design patterns in solving these design problems. [15]
- 3. What are the creational patterns? Discuss the structure, implementation and source code for any three creational patterns. [15]
- 4.a) Distinguish between creational patterns and structural patterns.b) Write the structure and implementation and applicability of Bridge pattern. [15]
- 5.a) Distinguish between decorator and façade patterns.b) Write the implementation and source code for proxy pattern. [15]
- 6. Explain clearly with suitable examples how chain of responsibility command and interpreter patterns can be used. [15]
- 7. Discuss the consonances, structure and implementation of memento, observer and Template method patterns. [15]
- 8. Write short notes on the following:
 - a) Fly weight pattern
 - b) Strategy pattern
 - c) Design patterns in small talk MVC.

[15]