

**Code No: C0507, C5807**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech I - Semester Examinations, March/April-2011**

**SOFTWARE ARCHITECTURE AND DESIGN PATTERNS**

**(COMMON TO COMPUTER SCIENCE, COMPUTER SCIENCE & AND ENGINEERING)**

**Time: 3hours**

**Max. Marks: 60**

**Answer any five questions  
All questions carry equal marks**

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1. Explain the Architecture patterns, Architecture styles and Reference models. [12]
2. Discuss about quality attributes and architectural means for achieving quality. [12]
3. Discuss clearly with a suitable example how the software architecture evaluation will be done. [12]
4. What is meant by Software Product Lines? Discuss briefly about software architecture in future. [12]
5. What is meant Design Patterns? What are their advantages? Discuss about selection and usage of design patterns. [12]
6. Discuss the applicability, structure, participants, consequences and implementation of Abstract Factory pattern. [12]
7. Discuss the applicability, structure and implementation of Interpreter, Memento and Observer patterns. [12]
8. Write short notes on the following:
  - a) Visitor pattern
  - b) Flyweight pattern
  - c) ATAM. [12]

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