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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