

**R09**

**Code No: D2503, D6209**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech II- Semester Regular Examinations September, 2010**

**SOFTWARE ARCHITECTURE AND DESIGN PATTERNS**

**(Common to Software Engineering, Web Technologies)**

**Time: 3hours**

**Max. Marks: 60**

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

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1. What is architecture business cycle? Elaborate on it in detail.
- 2.a) What makes a good software architecture?  
b) Why software architecture is important?
3. What is architecture evaluation? Elaborate on ATAM in detail.
4. What is reconstructing software architecture? Explain various activities of it.
5. What is architectural mismatch? Explain various techniques for repairing the mismatch.
6. What is a design pattern? Explain the role of them in solving design problems.
7. Explain any two behavioral patterns, with some applications of them.
8. Write short notes on the following:
  - a) Mediator
  - b) Builder
  - c) Factory.

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