Code No: D6209

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012
SOFTWARE ARCHITECTURE AND DESIGN PATTERNS
(WEB TECHNOLOGIES)

Time: 3hours   Max. Marks: 60

Answer any five questions
All questions carry equal marks
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1.a)   What is meant by software architecture ? What makes a Good architecture?
  b)   Explain about the common software architecture structures.

2.a)   Explain about software processes and the architecture business cycle.
  b)   State and explain the system quality attribute scenarios.

3.a)   What are the six benefits that flow from holding architectural inspections? Explain them.
  b)   Discuss the ATAM evaluation team roles.

4.a)   What is meant by CBAM? Discuss the basis for CBAM.
  b)   What is meant by software product lines? What makes software product lines difficult?

5.a)   What is meant by architectural mismatch? Discuss the techniques for detecting interface mismatch.
  b)   Discuss the impact of commercial components.

6.   What are the benefits of design patterns? State various structural patterns and explain any three of them.

7.a)   Discuss about applicability, participants and consequences of builder pattern.
  b)   Compare the creational patterns and structural patterns.

8.   Write short notes on the following
     a) Mediator pattern
     b) Template method
     c) Celsius Tech

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