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Fifth Semester MCA. Degree Examination, December 2010
Software Architecture

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. What is the architecture business cycle? Explain how it works. (10 Marks)
b. List all the common software architecture structures. Explain the component connect structure. (10 Marks)
- 2 a. Explain the relationships of reference models, architectural patterns, reference architectures and software architectures with a diagram. (10 Marks)
b. Explain pipes and filters architecture style, with a neat diagram. (10 Marks)
- 3 a. Explain the process control paradigms, with example. (10 Marks)
b. Explain the steps involved in implementing the layers architectural pattern. (10 Marks)
- 4 a. Explain the variants of Broker architecture. (10 Marks)
b. Depict the dynamic behaviour of MVC pattern, with change – propagation mechanism scenario. (10 Marks)
- 5 a. What are quality attribute scenarios? Explain the modifiability scenario with diagrams. (10 Marks)
b. What do you mean by tactics? Explain the availability tactics. (10 Marks)
- 6 a. Explain the steps involved in implementing a whole – part structure. (10 Marks)
b. Define proxy design pattern. Discuss the benefits and liabilities of the same. (10 Marks)
- 7 a. Explain with a neat diagram, the evolutionary delivery life cycle model. (10 Marks)
b. Explain the parts of interface documentation. (10 Marks)
- 8 Write short notes on :
a. View catalog.
b. Implicit invocation.
c. Passive filters.
d. Master – Slave pattern. (20 Marks)
