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Seventh Semester B.E. Degree Examination, May/June 2010
Software Architecture

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting
 at least TWO questions from each part.**

PART - A

- 1 a. Define software architecture. Explain the common software architecture structures. (10 Marks)
- b. Explain how the architecture business cycle works, with a neat diagram. (10 Marks)
- 2 a. Define architectural style. Mention any four commonly used styles. (04 Marks)
- b. Consider the case study of building a software controlled mobile robot. Describe its challenging problems and design considerations with four requirements. Finally give the solution by layered architecture for all the four requirements. (16 Marks)
- 3 a. What are the qualities of the system? Explain the modifiability general scenario. (10 Marks)
- b. What do you mean by tactics? Explain the availability tactics, with a neat diagram. (10 Marks)
- 4 a. What do you mean by architectural patterns? How is it categorised? Explain the structure part of the solution for ISO layered architecture. (10 Marks)
- b. Explain with a neat diagram, the dynamic scenario of passive filters. (10 Marks)

PART - B

- 5 a. What do you mean by broker architecture? What are the steps involved in implementing distributed broker architecture patterns? (10 Marks)
- b. Explain with a neat diagram, the dynamic scenarios of model view controller(MVC). (10 Marks)
- 6 a. What are the steps involved in implementing the microkernel system? (12 Marks)
- b. What are the benefits and liabilities of reflection architecture patterns? (08 Marks)
- 7 a. Discuss the five steps implementation of master slave pattern. (10 Marks)
- b. Define proxy design pattern. Discuss the benefits and liabilities of the same. (10 Marks)
- 8 a. Explain with a neat diagram, the evolutionary delivery life cycle model. (08 Marks)
- b. What are the suggested standard organization points for interface documentation? (12 Marks)
