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Eighth Semester B.E. Degree Examination, June/July 2014
Software Architecture

Time: 3 hrs.

Max. Marks: 100

**Note: Answer FIVE full questions, selecting
atleast TWO question from each part.**

PART – A

- 1 a. With the help of next block diagram of ABC (architecture business cycle). Explain in detail the different activities which are involved in creating a software architecture. (10 Marks)
- b. Enumerate and explain in detail, the different groups of software architectures structure are categorized into, with the help of appropriate pictorial description. (10 Marks)
- 2 a. Explain in brief about KWIC (keyword in context) with shared data solution. (10 Marks)
- b. Explain in brief about pipes and filters style, with diagram. (10 Marks)
- 3 a. Explain what is availability? Explain general scenario for availability? (10 Marks)
- b. What do you mean by tactics? Explain availability tactics with neat diagram. (10 Marks)
- 4 a. What do you mean by architectural pattern? How it is categorized? Explain the structure part of the solution for ISO layered architecture. (10 Marks)
- b. Define blackboard architectural pattern? Briefly explain steps used to implement the black board pattern. (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 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? (8 Marks)
- a. Discuss the five steps implementation of Master – slave – pattern. (10 Marks)
- b. Explain in brief about variants of whole – part – design pattern, in brief. (10 Marks)
- 8 a. Briefly explain the different steps performed while designing an architecture using the ADD method. (10 Marks)
- b. Write short notes any two of following : (10 Marks)
 - i) Forming team structures
 - ii) Documenting across views
 - iii) Documenting interfaces.