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10IS81

Eighth Semester B.E. Degree Examination, June/July 2015
Software Architectures

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Define software architecture, with the help of neat block diagram of ABC (Architecture Business Cycle). Explain in detail the different activities which are involved in creating a software architecture? (12 Marks)
- b. Write short notes on:
 - i) Architectural patterns
 - ii) Reference model
 - iii) Reference architectures. (08 Marks)
- 2 a. Explain in detail about pipes and filters architectural style with types (invariants), advantages and disadvantages. (10 Marks)
- b. Explain in brief about KWIC (Keyword in Context) problem with abstract data types and implicit invocation styles to implement solutions. (10 Marks)
- 3 a. What are the qualities of system? Explain modifiability general scenario? (10 Marks)
- b. What do you mean by tactics? Explain the availability tactics with a neat diagram. (10 Marks)
- 4 a. Briefly explain pipes and filters architectural pattern benefits. (08 Marks)
- b. Define Blackboard architectural pattern. Briefly explain the steps used to implement the blackboard pattern. (08 Marks)
- c. Write a note on HEARSAY-II system. (04 Marks)

PART – B

- 5 a. Define Broker architectural pattern. Explain types of participating components which comprises it. (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 microkernel system? (12 Marks)
- b. What are the benefits and liabilities of reflection architectural patterns? (08 Marks)
- 7 a. Discuss 5 steps in implementing Master-Slave pattern. (10 Marks)
- b. Discuss briefly implementation of whole-part-structure. (08 Marks)
- c. Mention benefits of proxy design pattern. (02 Marks)
- 8 a. Explain with neat diagram evolutionary delivery life cycle model. (08 Marks)
- b. What are the suggested standard organization points for interface documentation? (12 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.