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10MCA546

Fifth Semester MCA Degree Examination, Dec.2013/Jan.2014
Software Architecture

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain in brief the activities in software architecture. (10 Marks)
b. Elaborate on how the architecture manifests earliest set of design decisions. (10 Marks)
- 2 a. Explain the concept of pipes and filters architectural styles. (10 Marks)
b. Discuss the case study of instrumentation software. (10 Marks)
- 3 a. What is quality attribute scenario? Explain the components of such a scenario with a suitable diagram. explain a sample modifiability scenario. (10 Marks)
b. Discuss all the tactics for availability. (10 Marks)
- 4 a. With a suitable example, discuss layered architecture, state its benefits and liabilities. (10 Marks)
b. Bring out the implementation details of black board pattern. (10 Marks)
- 5 a. Discuss the participating components of a microkernel pattern. Explain any one variant of microkernel. (10 Marks)
b. Explain the 2 scenarios to depict the dynamic behaviour of model view controller. (10 Marks)
- 6 a. What is whole part structure? Explain implementation steps of whole part. (10 Marks)
b. Discuss the variants of proxy. (10 Marks)
- 7 a. Discuss the steps involved while designing an architecture using ADD method. (10 Marks)
b. Explain the parts of a documented view with a neat diagram. (10 Marks)
- 8 Write short notes on:
a. Presentation abstraction control.
b. Object oriented organization.
c. Heterogeneous architecture.
d. Broken pattern. (20 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.