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10MCA546

Fifth Semester MCA Degree Examination, Dec.2014/Jan.2015
Software Architecture

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Define software architecture. Explain why software architecture is important. (10 Marks)
b. Define architectural model, reference model, reference architecture and bring out the relationship between them. (10 Marks)
- 2 a. Define architectural style. Mention any four commonly used styles. (10 Marks)
b. State the problem of KWIC. Propose implicit invocation and pipes filters style to implement a solution for the same. (10 Marks)
- 3 a. What do you mean by tactics? Explain the general scenario for availability. (10 Marks)
b. Classify security tactics. What are the different tactics for resisting attacks? (10 Marks)
- 4 a. What are the benefits of layered pattern? (04 Marks)
b. Explain the forces that influence the solutions to problems based on black board pattern. (06 Marks)
c. Discuss the steps involved in the implementation of pipes and filters architecture. (10 Marks)
- 5 a. What do you mean by broker architecture? What are the steps involved in implementing distributed broker architecture pattern? (10 Marks)
b. Describe the dynamic behaviour of MVC, with any scenario. (10 Marks)
- 6 a. Explain the benefits and liabilities of microkernel pattern. (10 Marks)
b. Explain the known uses of reflection pattern. (05 Marks)
c. Explain the advantages and disadvantages of reflection architectural pattern. (05 Marks)
- 7 a. What are the applications of master slave pattern? (10 Marks)
b. List and explain the benefits of whole – part structure. (10 Marks)
- 8 a. What are the three steps for choosing views for a project? (06 Marks)
b. Write a short note on view catalog. (04 Marks)
c. What are the suggested standard organization points for view documentation? (10 Marks)

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.