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10MCA546

Fifth Semester MCA Degree Examination, June/July 2013
Software Architecture

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. What makes "good" software architecture?   (10 Marks)
   b. Explain how the software architecture affects the factors of influence. Hence or otherwise explain ABC.   (10 Marks)

2 a. Explain the relationships of reference models, architectural patterns, reference architectures and software architectures, with a diagram.   (10 Marks)
   b. Explain the advantages of pipes and filters architectural styles.   (10 Marks)

3 a. What is quality attribute scenario? What are the various quality attribute scenarios? Explain briefly.   (10 Marks)
   b. Explain the variants of broker architecture.   (10 Marks)

4 a. What are the steps involved in implementing whole – part structure.   (10 Marks)
   b. Explain the participating components in micro Kernel, with neat CRC.   (10 Marks)

5 a. What do you mean by tactics? Explain the availability tactics.   (10 Marks)
   b. Depict the dynamic behaviour of MVC with change – propagation mechanism scenario.   (10 Marks)

6 a. What are the benefits and liabilities of Master – slave pattern?   (10 Marks)
   b. Give detailed explanation on the different applications offered by the reflection pattern. (10 Marks)

7 a. Enumerate the implementation steps of layer architectural pattern.   (10 Marks)
   b. What are uses of architectural documentation? Bring out the concept of view as applied to architectural documentation.   (10 Marks)

8   Write a short notes on :
   a. HEARSAY – II system
   b. Testability scenario
   c. Usability tactics
   d. Heterogeneous architectures.   (20 Marks)

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