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13MCA51

Fifth Semester MCA Degree Examination, June/July 2017

Object Orient Modeling and Design Patterns

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. What is object orientation? Explain identity, classification, inheritance and polymorphism. (10 Marks)
b. Explain various links and association concepts in class model with examples. (10 Marks)
- 2 a. Explain different kinds of multiple inheritance and workarounds of advanced class modeling with an example. (10 Marks)
b. With the necessary diagram, explain the behavior of state diagram. (10 Marks)
- 3 a. Discuss the concurrency in advanced state modeling with an example. (10 Marks)
b. Explain the components of activity diagram with a neat diagram. (10 Marks)
- 4 a. Explain advanced use case model relationships with example. (10 Marks)
b. How to eliminate inappropriate attributes while constructing domain class model? (10 Marks)
- 5 a. Define analysis. What are the steps involved in constructing an appropriate application interaction model? Explain any three steps. (10 Marks)
b. Explain different stages of software development in detail. (10 Marks)
- 6 a. What is implementation? What are the different steps involved in implementation modeling? Explain any three steps with example. (10 Marks)
b. What is software control strategy? Explain different types of software control strategy. (10 Marks)
- 7 a. What is a pattern? Explain properties of pattern for software architecture. (10 Marks)
b. What are idioms? Explain counted pointer idioms in detail. (10 Marks)
- 8 a. Discuss the dynamics and steps of implementation of forwarder-receiver pattern with diagrams. (10 Marks)
b. Discuss the structure, dynamics and variants of command processor pattern. (10 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.