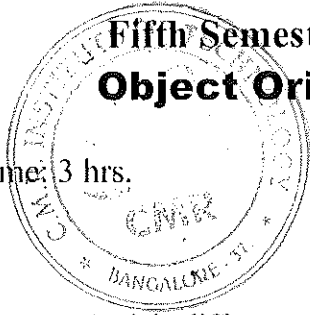


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13MCA51



Fifth Semester MCA Degree Examination, June/July 2016
Object Oriented Modeling and Design Patterns

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain different types of object oriented methodology stages. (05 Marks)
b. What is object orientation? Explain the characteristics required by an object oriented approach. (10 Marks)
c. What is model? Briefly discuss about 3 models. (05 Marks)
- 2 a. Explain with a neat diagram class model of a windowing system. (10 Marks)
b. Define the following terms, with an examples : (10 Marks)
i) enumerations ii) qualified associations iii) abstract classes.
- 3 a. What do you mean by states and events? Draw the state diagram for a telephone line system. (10 Marks)
b. What is concurrency? Explain the aggregation concurrency, with an example. (10 Marks)
- 4 a. Briefly discuss the usecase relationships and draw the usecase diagram of stock brokerage system. (10 Marks)
b. Draw the activity diagram, for stock trade processing. What are the guidelines needed to be followed while drawing activity models. (10 Marks)
- 5 a. Explain software development stages. (10 Marks)
b. Explain system concept for an automated teller machine (ATM). (10 Marks)
- 6 a. Explain any 4 steps to construct a domain class model. (10 Marks)
b. Explain with a neat diagram ATM application class model. (10 Marks)
- 7 a. Explain batch transformation with an example. (10 Marks)
b. Explain the different ways to hide information. (10 Marks)
- 8 Write a short notes on : (20 Marks)
a. Multiple classification
b. Metadata
c. Swimlanes
d. Scenarios.