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## Fifth Semester MCA Degree Examination, Dec.2014/Jan.2015 Object Oriented Modeling and Design Patterns

ime: 3 hrs. Max. Marks. Note: Answer any FIVE full questions. hat is a model? Explain the various concepts of class modeling, with example. (12 Marks) Draw the elaborated ATM class model diagrams. (08 Marks) What is multiple inheritance? Discuss about the various concepts or kinds of multiple 2 inheritance in advanced class modeling, with example. (12 Marks) Draw the state dia sam for a telephone line. (08 Marks) What is use-case diagram? What are the guidelines of use - case models? Draw the use-case 3 diagram for a vending machine (10 Marks) b. Discuss about activity models with guidelines and draw the activity diagram for stock trade processing. (10 Marks) Explain the stages of software development (08 Marks) What are the steps to construct a tomain class model? Explain any four steps with example. b. (12 Marks) What are the steps to construct application interaction model? Explain any four steps with 5 example. (10 Marks) Discuss about the in hitectural styles that are common in existing system. b. (10 Marks) Write short votes on: (with reference to class design) 6 Designing algorithm Design optimization. (10 Marks) is implementation? Explain any three steps to implement modeling with example. (10 Marks) What is a pattern? Discuss about various pattern description template.

8 a. Explain the structure and implementation of command processor, with diagram. (12 Marks)

Discuss about structure and dynamics of forwarder - receiver with a neat diagram,

b. Write a program in C++ or Java to implement publisher subscriber pattern with a class diagram. (08 Marks)

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