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Department of Library
BMS Institute of Technology
B.S. and S.S. BANGALORE-10

06CS71

Seventh Semester B.E. Degree Examination, June 2012
Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks:100

*Note: Answer FIVE full questions, selecting
atleast TWO questions from each part.*

PART – A

- 1 a. Explain how systems are modeled from different viewpoints. (10 Marks)
b. Elaborate on the major themes that are well supported in object oriented technology. (10 Marks)
- 2 a. List and explain the various restructuring techniques used with respect to workarounds (10 Marks)
b. What is a constraint with respect to a class modeling? Explain.
i) Constraints on generalization sets
ii) Constraints on links. (10 Marks)
- 3 a. Describe the two kinds of sequence models. What are the guidelines for sequence models? (12 Marks)
b. How an activity diagram differs from a traditional flowchart? Give the activity diagram for stock trade processing. (08 Marks)
- 4 a. What is system conception? List and explain questions that must be answered by a good system concept. (10 Marks)
b. Describe the steps performed in constructing a domain state model. (10 Marks)

PART – B

- 5 a. Describe the steps involved to allocate each concurrent subsystem to a hardware unit, either a general purpose processor or a fractional unit. (12 Marks)
b. What is an interactive interface? Explain in brief steps in designing an interactive interface. (08 Marks)
- 6 a. Elaborate three tasks involved in design optimization. (10 Marks)
b. What are the outputs from reverse engineering? In brief, discuss reverse engineering tips. (10 Marks)
- 7 a. What is a pattern? Explain the model view controller design pattern for software architecture with OMT class diagram. (10 Marks)
b. Describe three categories of patterns. (10 Marks)
- 8 a. Along with neat diagram and necessary steps, describe a typical scenario of the command processor pattern implementing an undo mechanism. (10 Marks)
b. Write a note on :
i) Benefits of view handler pattern
ii) Liabilities of view handler 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 e.g. 42+8 = 50, will be treated as malpractice.