

CS701 – OBJECT ORIENTED MODELING & DESIGN

Duration: 1 Hour

Max. Marks: 20

*Note: Answer any **One** full question from **each Unit**.*

Unit – I

1. What is domain model? How to construct a domain class model? Explain in detail. 10
2. a) Draw and explain use case diagram for ATM as well as organize them with relationship and sequence diagram for the process transaction scenario. 5
b) How to construct an application state model. Explain. 5

Unit – II

3. What are the decisions that are made during the first design stage for devising the basic approach to solving the problem? Explain any Four 10
4. Explain the different architectural styles of system in detail 10

VII Sem B.E. (CSE) Mid Semester Examinations – II, October 2013

CS701 – OBJECT ORIENTED MODELING AND DESIGN

Duration: 1 Hour

Max. Marks: 20

*Note: Answer any **One** full question from **each Unit**.*

Unit – I

1. Draw neatly, state diagram for session controller. 10
2. With example, list and explain the steps performed in constructing application interaction model 10

Unit – II

3. How to choose a software control strategy 10
4. Explain different architectural style with example 10

NMAM INSTITUTE OF TECHNOLOGY, NITTE*(An Autonomous Institution affiliated to VTU, Belgaum)***VII Sem B.E. (CSE) Mid Semester Examinations – II, October 2014****CS701 – OBJECT ORIENTED MODELING AND DESIGN**

Max. Marks: 20

n: 1 Hour

*Note: Answer any **One** full question from **each** Unit.***Unit – I**

a) What is a use case?

Consider a computer email system.

- i) List three actors. Explain the relevance of each actor.
- ii) One use case is to get email. List four additional use cases. Summarize the purpose of each with a sentence.
- iii) Prepare a use case diagram for a computer email system.

6

b) Explain the guidelines for sequence models.

4

a) Explain the special constructs for activity models.

6

b) What is an activity diagram? Draw an activity diagram for stock trade processing

4

Unit – II

a) List and explain the steps performed in constructing a domain state model.

5

b) Explain any five criteria involved in keeping the right classes during construction of domain class model.

5

a) Explain any five criteria involved in keeping the right associations during construction of domain class model.

5

b) What are the various questions need to be asked for good problem statement in a system conception stage? Explain.

5

VII Sem B.E. (CSE) Mid Semester Examinations - II, October 2015

12CS701 – OBJECT ORIENTED MODELING AND DESIGN

Duration: 1 Hour

Max. Marks: 20

*Note: Answer any **One** full question from **each Unit**.*

Unit – I

	Marks	BT*
1. a) What is a nested state? Illustrate the importance and usage of aggregation concurrency, with the help of a state diagram.	6	L4
b) Write a neat sequence diagram for process transaction scenario.	4	L5
2. a) Consider a physical bookstore, such as in a shopping mall		
i) List three actors that are involved in the design of a checkout system. Explain the relevance of each actor.		
ii) Take the perspective of a customer and list two use cases. Summarize the purpose of each use case within a sentence.		
iii) Prepare a use case diagram for physical bookstore checkout system.		
iv) Prepare a normal scenario for each use case.		
b) How classes are identified in a domain class model? Briefly explain	6	L3
	4	L1

Unit – II

3. a) Describe the sequence of software development stages.	6	L2
b) What do you mean by system conception? Explain devising a system conception.	4	L2
4. a) Discuss the steps involved in constructing an application state model.	6	L2
b) Explain the steps to construct a domain state model	4	L3

BT* Bloom's Taxonomy, L* Level

VII Sem B.E. (CSE) Mid Semester Examinations - II, October 2017

14CS701 – OBJECT ORIENTED MODELING AND DESIGN

Duration: 1 Hour

Max. Marks: 20

Note: Answer any One full question from each Unit.

Unit – I

Marks BT*

- | | | | |
|----|---|---|-----|
| 1. | a) Explain sequence of software development stages. | 6 | L*1 |
| | b) Explain the steps to construct domain state model. | 4 | L2 |
| 2. | a) Discuss the steps involved in constructing a domainclass model. | 6 | L2 |
| | b) What do you mean by system conception? Explain devising a system conception. | 4 | L6 |

Unit – II

- | | | | |
|----|---|---|----|
| 3. | a) Explain in detail common architectural styles. | 6 | L2 |
| | b) What are the issues regarding boundary conditions? Give some architectural styles. | 4 | L6 |
| 4. | a) Compare layers and partitions. How layers and partitions can be combined? | 6 | L2 |
| | b) Explain different types of global resources. | 4 | L2 |

T* Bloom's Taxonomy, L* Level

VII Sem B.E. (CSE) Mid Semester Examinations - II, October 2016

13CS701 – OBJECT ORIENTED MODELING AND DESIGN

Time: 1 Hour

Max. Marks: 20

*Note: Answer any **One** full question from **each Unit**.*

Unit – I

	Marks	BT*
a) Discuss the development stages of software development process.	5	L*2
b) Design state diagrams associated with session controller for obtaining information from the scenarios of the interaction model and for elaborating the transfer rate.	5	L4
a) Discuss system conception and elaborate a case study on system concept for an automated teller machine.	5	L2
b) Discuss the criteria for discarding unnecessary & incorrect association and specify the semantics of association.	5	L2

Unit – II

a) Discuss the qualities of good class libraries as per Korson and problem specified by Berlin.	6	L2
b) Discuss two forms of layered architecture.	4	L3
Determine the ways of allocating each concurrent subsystem to a hardware unit (general purpose processor or a specialized functional unit).	10	L2

Bloom's Taxonomy, L* Level
