B.E. Computer Science & Engineering Fifth Semester
CSE501 - Object Oriented Analysis and Design

P. Pages : 2

Time : Three Hours

1265

Max. Marks : 80

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Notes : 1. All questions carry marks as indicated.
2. Diagrams should be given wherever necessary.

1. a) Discuss the various benefits of object models explain with suitable examples. **8**

b) Explain the following term : **8**
   i) Inheritance
   ii) Link and Association

OR

2. a) Explain the various elements of object model with suitable examples. **8**

b) Define attributes and explain the various types of attributes. **8**

3. a) Explain events and states. Discuss nested state diagram. **8**

b) Discuss the relation between object model and dynamic model. **8**

OR

4. a) Draw the DFD for banking transaction. **8**

b) Explain the following : **8**
   i) Actor   ii) Data store
   iii) Data flow   iv) Processes

5. a) Discuss the various phases of development of designing algorithm. **8**

b) Write a note on : **8**

   i) Design optimization.

   ii) Physical packaging.

OR

6. a) State and explain the different principles of modeling. **7**

b) Compare procedure driven system event driven system & concurrent system. **9**

7.	a)	Define use case diagram and explain it with suitable diagram.	**8**
	b)	Explain state chart diagram in detail with suitable example.	**8**

<div align="center">**OR**</div>

8.	a)	What is Interaction diagram. Draw and explain sequence diagram for Telephone Call.	**8**
	b)	Explain the following :	**8**

     i)   Guard condition   ii)   Initial & final states

     iii) Entry and exit action   iv)   Events and signals

9.	a)	Explain design pattern ? Distinguish between cohesion and coupling.	**8**
	b)	What is collaboration ? Explain elements of collaboration diagram.	**8**

<div align="center">**OR**</div>

10.	a)	Explain components ? Discuss the uses of component diagram.	**8**
	b)	Write a note on following.	**8**

     i)   Deployment.

     ii)   Pattern & frameworks.

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