

B.E. Seventh Semester (Computer Science & Engineering) (CGS) -
10343 : Object Oriented Analysis and Design : 7 KS 04

P. Pages : 2

Time : Three Hours



AU - 2893

Max. Marks : 80

- Notes :
1. Assume suitable data wherever necessary.
 2. Diagrams and chemical equations should be given wherever necessary
 3. Use of pen Blue/Black ink/refill only for writing book.

1. a) Explain the three models to describe a system. Hence determines data structure and algorithms names for operations of the "Window class". 7
b) Describe the modeling notations for classes, illustrate with a class and objects. 7

OR

2. a) What are the stages of object oriented methodology to be added to prevent loss of information during development. 7
b) Explain the proper use of association classes that do not fold attributes of a association into class. Thus explain association class vs. ordinary class. 7
3. a) Explain N-array association as advance object and class concepts. 7
b) Draw a class diagram of a company having Department, office, person, & Headquarter of office showing concrete and Abstract class and abstract operation. 6

OR

4. a) Explain Aggregation versus association and composition. 6
b) Draw a sample state diagram for a telephone line specifies the state sequences caused by event sequences. 7
5. a) Draw a nested state chart diagram for "Item Delivery" that shows a super-state of three states. 6
b) Illustrate with restaurant example the sequence diagram for the
"Customer read the menu,
"Customer places the order,
" Order is sent to the kitchen for preparation.
" Order items are served,
" Customer requests for a bill for a order,
" Bill is prepared for this order,
" Customer is given a bill,
" Customer pay bill. 7

OR

6. a) Explain with an example an aggregation and its concurrent state diagram. 8
b) Describe guidelines for use case model draw a simple use case diagram. 5

7. a) What are the sequence of well-defined development stages? Explain their purpose in life cycle. 7
- b) Describe the strategies used to identify conceptual classes. Thus explain the steps to create a domain model used to represent conceptual classes. 7

OR

8. a) Explain the devising the system concept by answering the six basic questions while elaborating the system concept. 7
- b) What are the analysis modeling dimensions? Thus explain domain analysis process. 7
9. a) What are the major steps to be consider for construction of an application interaction model? 7
- b) Explain selection criteria for software control strategies. 6

OR

10. a) Explain the steps used to construct application class model. 7
- b) Describe the system design overview in context of system architecture which provides information to take decisions Elaborate those decisions in short. 6
11. a) What are the steps to design algorithm. Explain them with their purpose and importance. 7
- b) Explain the adjustment of inheritance by changing the definitions of classes and operations. 6

OR

12. Describe and explain key concepts by drawing the ATM domain class model after class design. 13

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