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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CSE) (2011 Batch Elective-II) (Sem.–7,8)
OBJECT ORIENTED ANALYSIS AND DESIGN
Subject Code : BTCS-906
Paper ID : [A2988]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students has to attempt any **TWO** questions.

SECTION-A

1. Answer the following in brief :

- a) Inception
- b) Polymorphism
- c) Dynamic Behaviour
- d) System Workflow
- e) AntiPatterns
- f) Association and Aggregation
- g) Construction and Transition
- h) Object oriented metrics
- i) Package Diagram
- j) GoF Pattern

SECTION-B

2. What is meant by domain modelling? How CASE tools help in domain modelling?
3. Discuss the Aspect-oriented software modelling with the help of block diagram.
4. Explain the use of communication diagrams for modelling interactions.
5. Discuss the use of state machine diagram with the help of a suitable example.
6. Explain the mapping of design to code with the help of suitable example.

SECTION-C

7. What is the role of pattern in object oriented analysis and design? Explain the use of following patterns with the help of suitable examples :
 - a) The Template Method pattern
 - b) Behavioural Pattern
 - c) The Proxy Pattern
 - d) GRASP Pattern
8. Explain the following in object-oriented programs :
 - a) Unit Testing
 - b) System-level Testing
9. Explain use case modelling and decomposition of use cases with the help of Red Bus Seat Reservation System by considering the following tasks
 - a) Record information about a new booking (Record Booking)
 - b) Cancel a booking (Cancel Booking)
 - c) Record the arrival of a Passenger (Record Arrival)
 - d) Change the booking of a Passenger (Change Booking)
 - e) Finally pay for Booked Ticket (Ticket Payment)