Mha I -10 100

TE/comp / sem VI /Rev
sub - OO SE
object oriented software Engineering

Con. 5547-10.   (REVISED COURSE)   GT-7560

30-11-10

(3 Hours)   [Total Marks : 100

N.B. : (1) Question No. **1** is **compulsory**.
   (2) Attempt any **four** questions out of the remaining **six** questions.

1. A leading TRAVEL AGENCY has decided to develop application package to help its **20** customer in planning tours. The agency provides services like tour, air, railway, luxury coach, hotel booking etc. Many a times customers do not have idea of availability of transport services to a particular destination. The agency also gives advice regarding economical planning of vacation/tour. Given the tour constraints like number of days, affordable cost and places to visit the software should present alternative tour plans. Alternatively the software may be just used for querying to know availability of transport services, hotels etc. Besides this main objective of this software should also have facilities for billing and accounting for the agency. You are appointed as a consultant to develop implementation strategy for Automated Tourist System. Draw use case and class diagram.

2. (a) Explain how project scheduling and tracking is done for a software development **10** project.
   (b) Explain objectives for testing. Also explain the following terms :— **10**
       (i) System testing
       (ii) Scalability
       (iii) Regression
       (iv) Black box testing.

3. (a) What is deployment diagram ? Explain the elements of deployment diagram. **10** Give the use of diagram in detail.
   (b) Differentiate between Static modeling and Dynamic modeling in detail. **10**

4. (a) Construct the state diagram and interaction diagram for the online Railway Reservation **10** System.
   (b) State different types of Coupling and Cohesion. Explain any four techniques of **10** coupling and cohesion.

5. (a) Explain Software Configuration Management and Change Control Management in **10** detail.
   (b) What are different types of maintenance and also explain the different steps involved **10** in creating a maintenance log ?

6. (a) Explain how to map different types of association to the database. Also explain **10** how to map generalization to database.
   (b) What is an Agile Process ? Explain any one Agile Process model with its advantages **10** and disadvantages.

7. Write short notes on (any **two**) :— **20**
       (a) Reverse and Re-engineering.
       (b) Software Architecture Styles.
       (c) SQA.
       (d) Software Testing Strategies.