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Total No. of Pages : 02

Total No. of Questions : 08

M.Tech.(CSE Engg.) (E-I) (Sem.-2)
OBJECT ORIENTED ANALYSIS AND DESIGN USING UML
Subject Code : CS-512
Paper ID : [E0581]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1.
 - a. Describe principles of modeling. Also explain the importance of modeling.
 - b. What is object oriented modeling? Also explain object oriented design process.
2.
 - a. What do you mean by conceptual model of UML? Explain.
 - b. Describe building blocks of UML.
3.
 - a. Draw a class diagram and object diagram for library management system.
 - b. Explain the different kinds of relationships in the UML.
4.
 - a. What is the purpose of package diagram? What notation is used? Show an example.
 - b. Define roles, interface types and instances.
5.
 - a. Explain the sequence diagram for online hotel reservation system.
 - b. Explain the difference between sequence diagram and collaboration diagram.
6. Develop an activity diagram based on the following narrative. If you need to make assumptions you can do, also note them.

The shipping department receives all shipments on outstanding purchase orders. When the clerk in the shipping department receives a shipment, he or she finds the outstanding purchase order for those items. The clerk then sends multiple copies of the shipment packing slip. One copy goes to purchasing, and the department updates its records to indicate that the purchase order has been fulfilled. Another copy goes to accounting so that a payment can be made. A third copy goes to the requesting in-house customer so that he or she can receive the shipment.

Once payment is made, the accounting department sends a notification to purchasing. Once the customer receives and accepts the goods, he or she sends notification to purchasing. When purchasing receives these other verifications, it closes the purchase order as fulfilled and paid.

7. a. Differentiate between the following :
 - I. Process and thread
 - II. Events and signals
- b. Explain the importance of state chart diagram with the help of an example.
8. a. What do you mean by deployment diagram? What is the purpose of deployment diagram? Explain in detail with the help of an example.
- b. Draw the component diagram for online shopping.

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