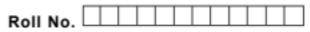


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M.Tech.(CSE Engg.) (E-I) (Sem.-2) OBJECT ORIENTED ANALYSIS AND DESIGN USING UML Subject Code : CS-512 M.Code : 35413

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- a) What is a state diagram? Discuss the representation of states, events, transitions and conditions in a state diagram.
 - b) Describe the principles of object-oriented modeling. Differentiate between Static Modeling and Dynamic Modeling.
- 2. a) Discuss the role of various UML views in architecture of a software system.
 - b) How synchronous messages with/without priority call back mechanism are organized in UML? Explain with suitable example.
- 3. Differentiate between following with the help of suitable examples:
 - a) Collaboration and Sequence
 - b) Component diagram and Composite structure diagram
- 4. a) List and discuss common modeling mechanisms in basic structural modeling.
 - b) Discuss the significance of Time and Change events in UML modeling with suitable example.
- 5. a) What do you mean by transition in a state machine? How guard condition effects the transitions?
 - b) Explain modeling a Client/Server system using deployment diagram.
- Discuss the importance of UML in various phases of a software development lifecycle with suitable example.

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- 7. a) How attributes and operations are organized in a class?
 - b) Explain various approaches used to model serialization of access to the critical object.
- 8. Write short notes on the following :
 - a) Abstractions and Instances
 - b) Use case diagram
 - c) Objects and object classes
 - d) Association Relationships

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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