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DII1349

Object Oriented Modelling & Design (New) (1240)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any two** questions from each unit.
5. Figure to the right indicate full marks.

UNIT - I

1. a) Explain object oriented thinking in detail. 10
b) Explain new features in UML 2.0. 10
c) Explain different architectural approaches. 10

UNIT - II

2. a) Explain UML Metamodel with diagram. 10
b) Discuss overview of any five UML 2.0 diagrams with example. 10
c) Discuss Object Constraint Language. (OCL) 10

UNIT - III

3. a) Explain concept of Templates in detail. 10
b) Draw class diagram for purchase management system. Make suitable assumptions. 10
c) Explain concept of collaborations with example. 10

UNIT - IV

4. a) Explain following terms with respect to Interaction overview diagram. **10**
- i) Partitions
 - ii) Regions
 - iii) Exceptions
 - iv) Interactions.
- b) Draw a communication diagram for airline reservation system, make suitable assumptions. **10**
- c) Explain following terms with respect to state machine diagram. **10**
- i) Sequential substates
 - ii) Concurrent substates.

UNIT - V

5. a) Explain package diagram in detail. **10**
- b) Draw a deployment diagram for the following application. A full-fledged website is to be hosted for your college. Make suitable assumptions. **10**
- c) Discuss support for Modeling Architecture in UML. **10**
