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B.Tech. Degree VI Semester Examination April 2018

IT 605 OBJECT ORIENTED MODELING AND DESIGN (2006 Scheme)

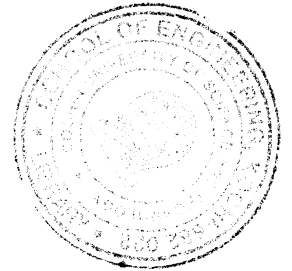
Time: 3 Hours

Maximum Marks: 100

PART A (Answer *ALL* questions)

(8 × 5 = 40)

- I. (a) Write short note on Use case and Actor generalization.
- (b) Define Packages and Relationships.
- (c) Explain the UML notations in Sequence diagram.
- (d) Describe the significance of Interaction overview diagrams.
- (e) Explain the characteristics of well formed design classes.
- (f) Define Submachine and Composite States.
- (g) Give a brief idea about software architecture.
- (h) Explain Architecture description language.



PART B

(4 × 15 = 60)

- II. Explain Use Case Modeling with an example of online banking. The customers can make bill payments, transfer money to accounts and maintain their profile. Managers approve the transactions. (15)
- OR**
- III. Define: (3 × 5 = 15)
 - (i) Inheritance.
 - (ii) Polymorphism.
 - (iii) Objects and Classes.
 - IV. Sketch and explain Activity Diagram for online shopping. (15)
- OR**
- V. Explain Communication Diagram in UML. (15)
 - VI. Illustrate the concepts of state machine diagrams with the example of car registration in RTOs. (15)
- OR**
- VII. (a) Describe interfaces and components. (7)
 - (b) Explain design workflow in UML. (8)
 - VIII. Explain the concepts of Object Constraint Language. (15)
- OR**
- IX. Describe UML Deployment diagram with the help of a neat diagram. (15)