Code: 15A05503 **R15**

B.Tech III Year I Semester (R15) Regular Examinations November/December 2017

OBJECT ORIENTED ANALYSIS & DESIGN

(Common to CSE and IT)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

*****

1 Answer the following: (10 X 02 = 20 Marks)

(a) Describe the structure of complex system using social institutions.
(b) According to Levy what are the events that have contributed to the evolution of object-oriented concepts.
(c) What is an operation? List the common kinds of operations supported by OO Concept.
(d) Give brief description on the incremental and iterative nature of classification.
(e) List some of the areas (at least 8) where UML is used.
(f) Enumerate the steps to reverse engineer a class diagram.
(g) What is a package? What are the owned elements present in it?
(h) List the contents of use case diagrams.
(i) What is activity diagram? What is its role in UML?
(j) Write about the role of actions in Unified Modeling.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 (a) List and explain the attributes of a complex system.
(b) Write about the canonical form of a complex structure.

OR

3 (a) List the main kinds of programming styles along with their abstractions.
(b) Write on the benefits, open issues and spectrum of object persistence.

UNIT – II

4 (a) Describe in detail about the relationship between objects. Explain with suitable example.
(b) Write about the identification of key abstractions.

OR

5 With the help of suitable example, explain the relationship among the classes.

UNIT – III

6 (a) What are the rules that should be followed while building the UML diagrams?
(b) List and explain the various common mechanisms that apply consistently throughout a language.

OR

7 Write and explain the various modeling techniques of typical classes.

UNIT – IV

8 What is composite diagram? What is its role in modeling? List and explain the components present in it? Explain the same by using Fibonacci sequence.

OR

9 Give brief description about the profile diagrams.

UNIT – V

10 (a) Distinguish between sequence and collaboration diagrams.
(b) Generate a usecase diagram for interaction of a client within a restaurant (system).

OR

11 Draw and explain the state machine diagram for computer keyboard.

*****