Code: 13A05602

B.Tech III Year I Semester (R13) Supplementary Examinations November/December 2017

OBJECT ORIENTED ANALYSIS DESIGN & MODELING

(Information Technology)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - Is the design need to construct system? Discuss. (a)
 - (b) What are the different programming paradigms?
 - Define the aggregation of 2 objects with example. (c)
 - (d) What is CRC card? Where it is used?
 - Differentiate between association and dependency relationship. (e)
 - Define include and extend relation in generalization. (f)
 - How package constructed in UML? (g)
 - Define advanced class with example. (h)
 - (i) What are the model roles in collaboration?
 - Define events and signals in UML. (i)

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT – I

- Explain the topology of object based and object oriented programming languages. 2 (a)
 - Discuss the benefits of object model. (b)

OR

- 3 What is the canonical form of a complex system? (a)
 - Why software is inherently complex? Justify. (b)

UNIT – II

- Describe about nature of object and class. (a)
 - (b) Discuss interplay of class and objects.

OR

5 Explain identifying key abstraction and mechanism in class or objects.

[UNIT - III]

- Discuss about common mechanism in UML with respective example (a)
 - Illustrate the modeling of system's architecture with a neat sketch. (b)

- 7 (a) What are the common modeling techniques of object diagram? Explain.
 - Construct object diagram for library management system. (b)

UNIT - IV

8 Discuss in detail about advanced relationships.

OR

- 9 Explain modeling context of a system in use case diagram with neat sketch. (a)
 - (b) Describe forward and reverse engineering techniques of use case diagrams.

UNIT – V

- 10 (a) Define organizing of components.
 - Explain internal structure of components. (b)

OR

- Describe modeling of work flow of activity diagram with an example. 11 (a)
 - (b) How do you justify the activity diagram is well structured?