LJ-439

M.Sc. Computer Science

3rd Semester Examination, July-Dec., 2020

Paper - V

Object Oriented Analysis and Design

Time : Three Hours] [*Maximum Marks* : 100

Note : Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

1. (*a*) Explain the terms object and classes abstraction and encapsulation inheritance.

(*b*) Explain Object Modeling technique by Rumbaugh.

(*c*) Describe Object Oriented Software Engineering.

Unit-II

2. (*a*) Explain object oriented system development process in brief.

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(*b*) Explain requirement engineering in brief.

(*c*) Write short notes on the following :

(*i*) UML Notation

(*ii*) Aggregation

(*iii*) Cardinality

(*iv*) Composition

Unit-III

3. (*a*) Explain containment and composition with example.

(*b*) What is the use of use case diagrams ? Differentiate between the roles of actors and users.

(*c*) Write short notes on the following :

(*i*) Activity Diagram

(*ii*) Inheritance

(*iii*) CRC Approach

(*iv*) Documentation

Unit-IV

4. (*a*) Explain design of interface objects in detail.

(*b*) Discuss in detail about designing class diagrams with the help of example.

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(*c*) Write short notes on the following :

(*i*) Object interface

(*ii*) Security

(*iii*) Collaboration Diagram

Unit-V

5. (*a*) Explain the impact of object orientation on testing.

(*b*) Explain object oriented Database Management System with example.

(*c*) Write short notes on the following :

(*i*) Design for reusability

(*ii*) Testing strategies

(*iii*) Design matrix

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