**SRM University, kattankulathur, Chennai 603203**

**Department of Information Technology**

**IT1006 Object Oriented Analysis and Design**

**Question Bank**

**PART-B Questions ( 4 marks)**

1. Define Software Development Methodology.
2. How Object-Oriented development differs from traditional Software Development Approach?
3. Why Object Orientated Methodology is preferred in Software Development Approach?
4. What are the characteristics and advantages of Object Oriented approach?
5. What are the concepts used in Unified Approach in Software Development?
6. Define the terms a) Object d) Class. Differentiate an object and a class.
7. Explain briefly a) Object State and Properties b) Object Behavior and Methods
8. Explain briefly Encapsulation and Information Hiding.
9. What is Class Hierarchy? Explain with an example and diagram.
10. Explain with examples a) Inheritance b) Polymorphism.
11. Explain various steps in Software Development Process.
12. Explain Waterfall approach in Software Development. What are its limitations?
13. What are the expectations of a high quality software product?
14. Explain Use case driven software development approach.
15. What is Prototyping? Explain various prototyping methods.
16. Explain Object Modeling using Booch notation.

**PART-C Questions ( 12 marks )**

1. What is OMT? Explain with examples a) Object Model b) OMT Dynamic Model.

1. Explain briefly the four phases of OMT model. Explain with example OMT Functional Model.
2. Briefly explain the steps in Booch Methodology a) Macro Development Process b) Micro development Process

1. Explain in detail a) Object Oriented Software Engineering b) Object Oriented Business Engineering
2. Explain in detail the processes and components in Unified approach(UA).

1. Explain in detail with a diagram the layered approach in Software Development.
2. Consider a Hospital Management System. Apply the techniques of OOA to find out the classes and objects in it. Draw an use case model and explain how the users are interacting with the system.

1. Draw Use Case diagram for Library Management System and explain the concepts of OOSE under Jacobson Methodology. Use Include and Extend relations in your construct