**Que 1: What is UML (Unified Modeling Language)?**

ANS = UML is Unified Modeling Language. It is a graphical language for visualizing specifying constructing and documenting the artifacts of the system. It allows you to create a blueprint of all the aspects of the system, before actually physically implementing the system.

**Que 2: What is modeling? What are the advantages of creating a model?**

**ANS =** Modeling is a proven and well-accepted engineering technique which helps build a model. Model is a simplification of reality; it is a blueprint of the actual system that needs to be built. Model helps to visualize the system. Model helps to specify the structural and behaviour of the system. Model helps make templates for constructing the system. Model helps document the system.

**Que3: What are the different views that are considered when building an object-oriented software system?**

**ANS =** Normally there are 5 views.

1. Use Case view - This view exposes the requirements of a system.

2. Design View - Capturing the vocabulary.

3. Process View - modeling the distribution of the systems processes and threads.

4. Implementation view - addressing the physical implementation of the system.

5. Deployment view - focus on the modeling the components required for deploying the system.

**Ques 4: Mention the different kinds of modeling diagrams used?**

**ANS =** Modeling diagrams that are commonly used are, there are 9 of them. Use case diagram, Class Diagram, Object Diagram, Sequence Diagram, state chart Diagram, Collaboration Diagram, Activity Diagram, Component diagram, Deployment Diagram

**Que 5: What is a Use Case?**

**ANS =** A use case specifies the behaviour of a system or a part of a system, Use cases are used to capture the behaviour that need to be developed. It involves the interaction of actors and the system.