CT-1  (Object Oriented Techniques ECS-503)

TIME: 120 Min     MM: 60Marks

All Parts Compulsory.

Part-1 Attempt any three. [5 x 3=15M]

Q.1 Explain major features of Object Oriented programming.
Q.2 What is the significance of data types in a programming language? Discuss various data types in java.
Q.3 Strings are immutable .Explain the statement.
Q.4 What are collections in Java? When they are used?

Part-2 Attempt any three. [5 x 3=15M]

Q.1 What is UML? Mention the different kinds of modelling diagrams used.
Q.2 What are exceptions? When they are used? Explain with a code snippet?
Q.3 What is an interface in Java? Discuss with an example.
Q.4 Explain operator overloading with suitable examples.

Part-3 Attempt any three. [10 x 3=30M]

Q.1 Explain abstract method and abstract class. Write a program for employee class where salary as an abstract method with full implementation.
Q.2 What is an applet? Explain lifecycle of an applet with method declaration. Write a java program which shows a simple Applet.
Q.3 Explain multithreading in Java. What is the effect in program when we use multithreading in a program. Write a java program for z=sin(x) +cos(x) using multithreading.
Q.4 Design a class using Java to create a singly linked list. Then also write methods for adding a node to the linked list in the beginning and also search a given node.

--------------Best Of Luck--------------