

Introduction to Java (IT-402, Dec-2007)

Note: Section A is compulsory. Attempt any four questions from Section-B and any two from Section-C.

Section-A

1. a) What do you understand by a JVM?
b) How is type casting done in Java?
c) What is Operator in Java?
d) Describe the use of 'this' Keyword?
e) What is the purpose of using a 'throw' statement?
f) What do you understand by abstractions?
g) What is the purpose of an is Alive () method in Java?
h) List the methods used to implement inter process communication in Java?
i) Explain the use of Server Socket Class?
j) List the methods which are called when an applet is terminated.

Section-B

2. With the help of a suitable program, illustrate the difference between break and continue statement.
3. How the objects be used as method parameters in Java? Explain with the help of example.
4. What are Java packages? How are they defined and imported?
5. What constructions are used to create Client Socket? Also list the methods used for examining a socket for the address and port information associated with it?
6. What is an applet? Write a program to illustrate the use of get Document Base () and get Code Base () methods?

Section-C

7. (a) Explain the features of thread based multi-tasking environment of Java.
(b) Write a program, which creates the main thread and child threads.
8. How are strings implemented in Java? Explain using small programs, several methods that compare strings or substrings within strings.
9. What are parameterized constructions? Write a program which creates a class object, use's parameterized constructors to initialize the dimensions of the object, computes the volume of object, and also returns the value?