**Question 1**

What are up casting and down casting in java?

**Question 2**

What is the difference between a synchronized block and synchronized method?

**Question 3**

When do you use abstract class vs interface ?

**Question 4**

What is an anonymous class?

**Question 5**

In java, arrays are pass by value or pass by reference?

**Question 6**

What is the difference between a thread and a process?

**Question 7**

What will be the result of the following code?

class Test() {

public static void main(String k[]){

parse("invalid");

}

public static void parse(String str){

try{

float f = Float.parseFloat(str);

}catch(NumberFormatException exp){

f = 0;

}finally{

System.out.println(f);

}

}

}

**Question 8**

What exception will be thrown when the following code is executed?

public class ThreadX{

public static void main(String k[]){

new ThreadX().go();

}

public void go(){

Runnable r = new Runnable(){

public void run(){

System.out.println(“foo”);

}

};

Thread t = new Thread(r);

t.start();

t.start();

}

}

**Question 9**

What will be printed to the console?

**public** **class** Testing {

**public** **static** **void** main(String k[]){

**int** x=12 ;

**while**(x < 10){

x--;

}

System.*out*.println(x);

}

}

**Question 10**

Can you execute the following code ?

class Testing{

public static void main(String k){

System.out.println(“ 1”);

System.exit(2);

System.out.println(“2”);

}

}

**Question 11**

What is the difference between a HashMap, Hashtable and TreeMap?

**Question 12**

What will be printed on the console?

**class** A{

**public** **void** test(List list){

list.get(1);

}

}

**class** B {

**public** **static** **void** main(String k[]){

A a = **new** A();

List l = **new** ArrayList();

l.add("abc");

l.add("def");

l.add("ghk");

l.add("xyz");

a.test(l);

**for** (**int** i=0; i < l.size(); i++ ){

System.*out*.println(l.get(i));

}

}

**Question 13**

I have a properties file “xyz.properties” as follows

First Name=abcd

Last Name = xyz

Address = 1234 xxx yyy

Write a sample program to load properties from xyz.properties file.

**Question 14**

Write an algorithm for bubble sort

**Question 15**

Write an algorithm to validate a palindrome

**Question 16**

Explain the life cycle of a servlet

**Question 17**

What is the difference between forward and include methods of RequestDispatcher?

**Question 18**

What is the difference between forward and sendRedirect?

**Question 19**

How can you print the stack trace of an Exception out to my JSP page?

**Question 20**

Where and how do you define the session timeout for a web application?