**JAVA TEST**

**Objective: 30 Minutes**

**1. import java.util.\*;**

**class ArrayListTest{**

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

**Collection<Integer> a= new ArrayList<Integer>();**

**a.add(1);**

**a.add(2);**

**a.remove(1); //line 1**

**}}**

**Line 1 removes which of the following element?**

* 1. 1
  2. 2
  3. Does not remove any element.
  4. Code throws an IllegalArgumentException at runtime.

**2. public class Test {**

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

**byte b = 12; // 1**

**long l = 100; // 2**

**\_\_\_\_\_\_\_\_\_\_\_// 3**

**}}**

**What can you insert at line 3 so that the code compiles?**

1. b=l+1;
2. b += l;
3. l=b+1;
4. b=b+1;

**3.What will be the output of the following program?**

**String s1 = new String("hi");**

**String s2 = "hi";**

**System.out.println(s1 == s2);**

**System.out.println(s1.equals(s2));**

1. false true
2. true false
3. true true
4. None of the above.

**4. interface I {String s1 = "I";}**

**class A implements I {String s1 = "A";}**

**class B extends A {String s1 = "B";}**

**class C extends B {**

**String s1 = "C";**

**void printIt() {**

**System.out.print(((A)this).s1 + ((B)this).s1 +**

**((C)this).s1 + ((I)this).s1);**

**}**

**public static void main (String[] args) {new C().printIt();}**

**}**

**What is the result of attempting to compile and run the program?**

1. Prints: ABCI
2. Run-time error
3. Compile-time error
4. None of the above

**5.Objects which should not be saved must be marked :**

1. Serializable
2. NotSerializable
3. Transient
4. Do nothing

6.**Which of collections permit only 1 null element?**

* 1. ArrayList.
  2. HashSet.
  3. PriorityQueue.
  4. LinkedList.

**7. Which of the following classes uses Comparable and Comparator?**

* 1. TreeSet.
  2. Queue.
  3. PriorityQueue.
  4. Stack.

**8. Given**

**1. import java.util.\*;**

**2. class Cat{ }**

**3. class Tiger extends Cat { }**

**4. public class Animal{**

**5. public static void main(String [] args) {**

**6. Set<Cat> c1 = new TreeSet<Cat>();**

**7. Set<Tiger> t1 = new TreeSet<Tiger>();**

**8. hunt(c1);**

**9. hunt(t1);**

**10.}**

**11. // insert code here**

**12. }**

**Which, inserted independently at line 11, will NOT compile?**

1. public static void hunt(Set<?> s) { }
2. public static void hunt(Set<? super Tiger> s) { }
3. public static void hunt(Set<? extends Cat> s) { }
4. public static void hunt(Set<Object> s) { }

**9. Given**

**public class Test {**

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

**call(1);**

**}**

**public static void call(int... i)** **{**

**System.out.println("int...");**

**}**

**public static void call(long i)** **{**

**System.out.println("long");**

**}**

**public static void call(byte i)** **{**

**System.out.println("byte"); }**

**}**

**}**

**What will be printed?**

1. int...
2. long
3. byte
4. None of the above.

**10. class A{**

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

**try {**

**int i=10/0;**

**} catch( Exception e) {**

**System.out.println("caught inside"); }**

**catch(ArithmeticException e) {**

**System.out.println("caught outside"); }**

**}}**

**What is the result of compilation/execution of the code?**

1. Code does not compile
2. Code compiles and prints nothing
3. Code compiles and prints **“caught outside”**
4. Code compiles and prints **“caught inside”**