**LSET Preparation – Java**

**Mock Test – V (Apr 22, 2014)**

**Duration: 60 Minutes**

**[Total Marks: 70]**

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please fill up the answers in the table below.

**Answers - Java:**

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| --- | --- | --- | --- |
| **Question No** | **Answer** | **Question No** | **Answer** |
| 1 |  | 14 |  |
| 2 |  | 15 |  |
| 3 |  | 16 |  |
| 4 |  | 17 |  |
| 5 |  | 18 |  |
| 6 |  | 19 |  |
| 7 |  | 20 |  |
| 8 |  | 21 |  |
| 9 |  | 22 |  |
| 10 |  | 23 |  |
| 11 |  | 24 |  |
| 12 |  | 25 |  |
| 13 |  |  | |

**Section I: Java Marks: 70**

|  |  |  |
| --- | --- | --- |
| Q1 | 1. public static void before() {   Set set = new TreeSet();  set.add("2");  set.add(3);  set.add("1");  Iterator it = set.iterator();  while (it.hasNext())  System.out.print(it.next() + " ");  }  Which statements are true?   * 1. The before() method will print 1 2   2. The before() method will print 1 2 3   3. The before() method will print three numbers, but the order cannot be determined   4. The before() method will not compile   5. The before() method will throw an exception at runtime | 2 |
| Q2 | 1. Given a method declared as   public static <E extends Number> List<E> process(List<E> nums)  A programmer wants to use this method like this  // INSERT DECLARATIONS HERE  output = process(input);  Which pairs of declarations could be placed at // INSERT DECLARATIONS  HERE to allow the code to compile? (Choose all that apply.)   1. ArrayList<Integer> input = null;   ArrayList<Integer> output = null;   1. ArrayList<Integer> input = null;   List<Integer> output = null;   1. ArrayList<Integer> input = null;   List<Number> output = null;   1. List<Number> input = null;   ArrayList<Integer> output = null;   1. List<Number> input = null;   List<Number> output = null;   1. List<Integer> input = null;   List<Integer> output = null; | 4 |
| Q3 | class Business {  }  class Hotel extends Business {  }  class Inn extends Hotel {  }  public class Travel {  ArrayList<Hotel> go() {  //insert code here  }  }  Which, inserted independently at line 9, will compile? (Choose all that apply.)   1. return new ArrayList<Inn>(); 2. return new ArrayList<Hotel>(); 3. return new ArrayList<Object>(); 4. return new ArrayList<Business>(); | 4 |
| Q4 | private static int getSize(//insert here list){ //Line 1  return list.size();  }    public static void main(String[] args){  List<Integer> numbers = new ArrayList<Integer>();  numbers.add(1);  numbers.add(2);  numbers.add(3);    List<Double> doubleList = new ArrayList<Double>();  doubleList.add(1.0);  doubleList.add(2.0);  doubleList.add(3.0);  doubleList.add(4.0);  System.*out*.println("list[Integer] size = "+(*getSize*(numbers)));  System.*out*.println("list[Double] size = "+(*getSize*(doubleList)));  }  What should be inserted at //insert here at Line 1 so that program runs  Successfully?     1. List<? extends Number> 2. List<Number> 3. List<Integer> 4. List<Double> | 4 |
| Q5 | class Plane {  static String s = "-";  public static void main(String[] args) {  new Plane().s1();  System.out.println(s);  }  void s1() {  try {  s2();  } catch (Exception e) {  s += "c";  }  }  void s2() throws Exception {  s3();  s += "2";  s3();  s += "2b";  }  void s3() throws Exception {  throw new Exception();  }  }  What will be output of above program? | 4 |
| Q6 | class Loopy {  public static void main(String[] args) {  int[] x = { 7, 6, 5, 4, 3, 2, 1 };  // insert code here  System.*out*.print(y + " ");  }  }  Which, inserted independently at line 4, compiles? (Choose all that apply.)   1. for(int y : x) { 2. for(x : int y) { 3. int y = 0; for(y : x) { 4. for(int y=0, z=0; z<x.length; z++) { y = x[z]; 5. for(int y=0, int z=0; z<x.length; z++) { y = x[z]; 6. int y = 0; for(int z=0; z<x.length; z++) { y = x[z]; | 4 |
| Q7 | class Emu {  static String s = "-";  public static void main(String[] args) {  try {  throw new Exception();  } catch (Exception e) {  try {  try {  throw new Exception();  } catch (Exception ex) {  s += "ic ";  }  throw new Exception();  } catch (Exception x) {  s += "mc ";  } finally {  s += "mf ";  }  } finally {  s += "of ";  }  System.out.println(s);  }  }  What will be output of above program? | 4 |
| Q8 | public class OverAndOver {  static String s = "";  public static void main(String[] args) {  try {  s += "1";  throw new Exception();  } catch (Exception e) {  s += "2";  } finally {  s += "3";  doStuff();  s += "4";  }  System.out.println(s);  }  static void doStuff() {  int x = 0;  int y = 7 / x;  }  }  What will be output of above program?   1. 12 2. 13 3. 123 4. 1234 5. Compilation fails 6. 123 followed by an exception 7. 1234 followed by an exception 8. An exception is thrown with no other output | 4 |
| Q9 | class Hexy {  public static void main(String[] args) {  Integer i = 42;  String s = (i < 40) ? "life" : (i > 50) ? "universe" : "everything";  System.out.println(s);  }  }  What will be output of above program? | 2 |
| Q10 | class Fork {  public static void main(String[] args) {  if (args.length == 1 | args[1].equals("test")) {  System.out.println("test case");  } else {  System.out.println("production " + args[0]);  }  }  }  And command line invocation is:  java Fork live2  What is the result?   * 1. test case   2. production live2   3. test case live2   4. compilation fails   5. An exception is thrown at runtime | 2 |
| Q11 | class Feline {  public static void main(String[] args) {  Long x = 42L;  Long y = 44L;  System.out.print(" " + 7 + 2 + " ");  System.out.print(foo() + x + 5 + " ");  System.out.println(x + y + foo());  }  static String foo() {  return "foo";  }  }  What will be output of above program? | 4 |
| Q12 | interface Vessel {  }  interface Toy {  }  class Boat implements Vessel {  }  class Speedboat extends Boat implements Toy {  }  public class Tree {  public static void main(String[] args) {  String s = "0";  Boat b = new Boat();  Boat b2 = new Speedboat();  Speedboat s2 = new Speedboat();  if ((b instanceof Vessel) && (b2 instanceof Toy))  s += "1";  if ((s2 instanceof Vessel) && (s2 instanceof Toy))  s += "2";  System.out.println(s);  }  }  What will be output of above program? | 4 |
| Q13 | class Bird {  {  System.out.print("b1 ");  }  public Bird() {  System.out.print("b2 ");  }    static{  System.out.print("a1 ");  }  }  class Raptor extends Bird {  static {  System.out.print("r1 ");  }  public Raptor() {  System.out.print("r2 ");  }  {  System.out.print("r3 ");  }  static {  System.out.print("r4 ");  }  }  class Hawk extends Raptor {  public static void main(String[] args) {  System.out.print("pre ");  new Hawk();  System.out.println("hawk ");  }  }  What is output of above program? | 4 |
| Q14 | public class ExceptionTest {  public static void main(String...strings ){  Supertesting superobj = new Subclasstest();  superobj.method();  }  }  class Supertesting{  public void method() throws Exception{  System.out.println("Inside method::Supertesting");  }  }  class Subclasstest extends Supertesting{  public void method() throws NullPointerException{  System.out.println("Inside method::Subclasstest");  }  }  What will be output of above program?   1. Inside method::Subclasstest 2. Inside method::Supertesting 3. RuntimeException is thrown 4. Compilation fails | 2 |
| Q15 | public class SequenceTest {  static {  System.out.print("static1 ");  }  {  System.out.print("init1 ");  }    SequenceTest() {  System.out.print("const1 ");  }  {  System.out.print("init2 ");  }  public static void main(String... args) {  new SequenceTest();  }  }  What will be output of above program? | 2 |
| Q16 | **pu**blic class InitializerBlock {    int i = getI();  public static void main(String[] args){  System.out.println(new InitializerBlock().i);  }    private int getI(){  return 10;  }  }  What will be output of above program?   1. 10 2. 0 3. RuntimeException is thrown 4. Compilation fails | 2 |
| Q17 | class Bertha {  static String s = "";  public static void main(String[] args) {  int x = 4;  Boolean y = true;  short[] sa = { 1, 2, 3 };  doStuff(x, y);  doStuff(x);  doStuff(sa, sa);  System.out.println(s);  }  static void doStuff(Object o) {  s += "1";  }  static void doStuff(Object... o) {  s += "2";  }  static void doStuff(Integer... i) {  s += "3";  }  static void doStuff(Long L) {  s += "4";  }  }  What will be output of above program? | 2 |
| Q18 | class Box {  int size;  Box(int s) {  size = s;  }  }  class Laser {  public static void main(String[] args) {  Box b1 = new Box(5);  Box[] ba = go(b1, new Box(6));  for (Box b : ba)  System.out.print(b.size + " ");  }  static Box[] go(Box b1, Box b2) {  b1.size = 4;  Box[] ma = { b2, b1 };  return ma;  }  }  What will be output of above program? | 2 |
| Q19 | public class ExceptionTest {  public static void main(String...strings ){  Supertesting superobj = new Subclasstest();  superobj.method();  }  }  class Supertesting{  public void method() throws Exception{  System.out.println("Inside method::Supertesting");  }  }  class Subclasstest extends Supertesting{  public void method() throws NullPointerException{  System.out.println("Inside method::Subclasstest");  }  }  What will be output of above program?   1. Inside method::Subclasstest 2. Inside method::Supertesting 3. RuntimeException is thrown 4. Compilation fails | 2 |
| Q20 | class Top {  public Top(String s) {  System.out.print("B");  }  }  class Bottom2 extends Top {  public Bottom2(String s) {  System.out.print("D");  }  public static void main(String[] args) {  new Bottom2("C");  System.out.println(" ");  }  }  What will be output of above program?   1. BD 2. DB 3. BDC 4. DBC 5. Compilation fails | 2 |
| Q21 | class Alpha {  static String s = " ";  protected Alpha() {  s += "alpha ";  }  }  class SubAlpha extends Alpha {  private SubAlpha() {  s += "sub ";  }  }  class SubSubAlpha extends Alpha {  private SubSubAlpha() {  s += "subsub ";  }  public static void main(String[] args) {  new SubSubAlpha();  System.out.println(s);  }  }  What will be output of above program? | 2 |
| Q22 | class Mammal {  String name = "furry ";  String makeNoise() {  return "generic noise";  }  }  class Zebra extends Mammal {  String name = "stripes ";  String makeNoise() {  return "bray";  }  }  class ZooKeeper {  public static void main(String[] args) {  new ZooKeeper().go();  }  void go() {  Mammal m = new Zebra();  System.out.println(m.name + m.makeNoise());  }  }  What will be output of above program? | 2 |
| Q23 | class A {  }  class B extends A {  }  class ComingThru {  static String s = "-";  public static void main(String[] args) {  A[] aa = new A[2];  B[] ba = new B[2];  sifter(aa);  sifter(ba);  sifter(7);  System.out.println(s);  }  static void sifter(A[]... a2) {  s += "1";  }  static void sifter(B[]... b1) {  s += "2";  }  static void sifter(B[] b1) {  s += "3";  }  static void sifter(Object o) {  s += "4";  }  }  What will be output of above program?   1. -124 2. -134 3. -424 4. -434 5. -444 6. Compilation fails | 2 |
| Q24 | public class SubStringTesting {  public static void main(String args[]){  String Str = new String("Welcome to Tutorialspoint.com");  System.out.print("Return Value :" );  Str = Str.substring(10);  Str.substring(10,15);  Str = Str.substring(3);  System.out.println(Str);  }  }  What will be output of above program? | 2 |
| Q25 | class Two {  byte x;  }  class PassO {  public static void main(String[] args) {  PassO p = new PassO();  p.start();  }  void start() {  Two t = new Two();  System.out.print(t.x + " ");  Two t2 = fix(t);  System.out.println(t.x + " " + t2.x);  }  Two fix(Two tt) {  tt.x = 42;  return tt;  }  }  What will be output of above program? | 2 |