**LSET Preparation – Java & Software Engineering**

**Mock Test – II (Apr 7, 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**

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| Q1 | package pkgA;  public class Foo {  int a = 5;  protected int b = 6;  public int c = 7;  }  package pkgB;  import pkgA.\*;  public class Baz {  public static void main(String[] args) {  Foo f = new Foo();  System.out.print(" " + f.a);  System.out.print(" " + f.b);  System.out.print(" " + f.c);  }  }  What will be output of above program?   1. 5 6 7 2. 5 followed by an exception 3. Compilation fails 4. An exception is thrown at runtime | 2 |
| Q2 | public class Frodo extends Hobbit {  public static void main(String[] args) {  Short myGold = 7;  System.out.println(countGold(myGold, 6));  }  }  class Hobbit {  int countGold(int x, int y) {  return x + y;  }  }  What will be the output of above program?     1. 13. 2. 7. 3. 6. 4. Compilation fails. | 2 |
| Q3 | class Clidder {  private final void flipper() {  System.*out*.println("Clidder");  }  }  public class Clidlet extends Clidder {  public final void flipper() {  System.*out*.println("Clidlet");  }  public static void main(String[] args) {  new Clidlet().flipper();  }  }  What will be output of above program? | 2 |
| Q4 | class X {  void do1() {  }  }  class Y extends X {  void do2() {  }  }  class Chrome {  public static void main(String[] args) {  X x1 = new X();  X x2 = new Y();  Y y1 = new Y();  // insert code here  }  }    Which, inserted at line 9, will compile? (Choose all that apply.)   1. x2.do2(); 2. (Y)x2.do2(); 3. ((Y)x2).do2(); 4. None of the above statements will compile | 4 |
| Q5 | class Dog {  public void bark() {  System.*out*.print("woof ");  }  }  class Hound extends Dog {  public void sniff() {  System.*out*.print("sniff ");  }  public void bark() {  System.*out*.print("howl ");  }  }  public class DogShow {  public static void main(String[] args) {  new DogShow().go();  }  void go() {  new Hound().bark();  ((Dog) new Hound()).bark();  ((Dog) new Hound()).sniff();  }  }  What is the output of the above program?   1. howl howl sniff 2. howl woof sniff 3. howl howl followed by an exception 4. howl woof followed by an exception 5. Compilation fails | 4 |
| Q6 | public class Tenor extends Singer {  public static String sing() {  return "fa";  }  public static void main(String[] args) {  Tenor t = new Tenor();  Singer s = new Tenor();  System.out.println(t.sing() + " " + s.sing());  }  }  class Singer {  public static String sing() {  return "la";  }  }  What is the output of above program | 4 |
| Q7 | public class VarArgsTesting {    public static void main(String[] args){  VarArgsTesting obj = new VarArgsTesting();  obj.method(4,5,6);  }    void method(int ...i){  System.*out*.println("Inside int version");  }    void method(Integer …i){  System.*out*.println("Inside Integer version");  }  void method(int i, int y, int z){  System.out.println("Inside old int version");  }  }    What is the output of the above program?   1. Inside int version 2. Inside Integer version 3. Inside old int version 4. Compilation fails | 2 |
| Q8 | public class SpecificTypeTest {  public static void main(String[] args) {  method(null);  method(2);  }  static void method(Integer i) {  System.*out*.println("Inside Integer version");  }  static void method(int i) {  System.*out*.println("Inside int version");  }  static void method(Object s) {  System.*out*.println("Inside Object version");  }  }  What will be the output of the program? | 4 |
| Q9 | public class SpecificTypeTest {  public static void main(String[] args) {  method(null);  }  static void method(Integer i) {  System.*out*.println("Inside Integer version");  }  static void method(String s) {  System.*out*.println("Inside String version");  }  static void method(Object s) {  System.*out*.println("Inside Object version");  }  }  What will be the output of the program?   1. Inside String version 2. Inside Integer version 3. Inside Object version 4. Compilation fails | 4 |
| Q10 | public class Test extends Thread {  static String sName = "good";  public static void main(String argv[]) {  Test t = new Test();  t.nameTest(sName);  System.out.println(sName);  }  public void nameTest(String sName) {  sName = sName + " idea ";  start();  }  public void run() {  for (int i = 0; i < 4; i++) {  sName = sName + " " + i;  }  }  }  What will be the output of above program? | 4 |
| Q11 | class work {  Tech a = new Tech() {  public void tech() {  System.out.println("anonymous tech");  }  };  public void dothis() {  a.tech();  }  public static void main(String... args) {  work atech = new work();  atech.dothis();  }  }  class Tech{  public void tech() {  System.out.println("superclass tech");  }  }  What is output of above program? | 4 |
| Q12 | class Test {  public static void main(String argv[]) {  ArrayList list = new ArrayList();  ArrayList<String> listStr = list;  ArrayList<StringBuffer> listBuf = list;  listStr.add(0, "Hello");  StringBuffer buff = listBuf.get(0);  System.out.println(buff.toString());  }  }  What will be output of above program?   1. Hello 2. Compilation fails 3. java.lang.ClassCastException is thrown 4. null | 2 |
| Q13 | class A {  {  System.out.print("b1 ");  }  public A() {  System.out.print("b2 ");  }  }  class B extends A {  static {  System.out.print("r1 ");  }  public B() {  System.out.print("r2 ");  }  {  System.out.print("r3 ");  }  static {  System.out.print("r4 ");  }  }  public class C extends B {  public static void main(String[] args) {  System.out.print("pre ");  new C();  System.out.println("post ");  }  }  What is output of above program? | 4 |
| Q14 | class A {  public String getName() throws ArrayIndexOutOfBoundsException {  return "Name-A";  }  }  class C extends A {  public String getName() throws Exception {  return "Name-C";  }  }  class Test {  public static void main(String... args) {  A a = new C();  a.getName();  }  }  What will be output of above program?   1. Compilation fails 2. Name-A 3. Name-C 4. Runtime exception is thrown | 4 |
| Q15 | import java.util.\*;  public class SetChecking {  public static void main(String... s) {  Set<String> setObject = new HashSet<String>();  setObject.add("test1");  setObject.add("test2");  setObject.add("test3");  setObject.add("test1");  int size = setObject.size();  System.out.println(size);  }  }  What will be output of above program? | 4 |
| Q16 | import java.util.ArrayList;  import java.util.List;  public class ListChecking {  public static void main(String... s) {  List<String> listObject = new ArrayList<String>();  listObject.add("test1");  listObject.add("test2");  listObject.add("test3");  listObject.add("test1");  int size = listObject.size();  System.out.println(size);  }  }  What will be output of above program? | 2 |
| Q17 | public class work {  public static void main(String[] args) {  new OuterClass();  }  }  class OuterClass {  private int x = 9;  public OuterClass() {  InnerClass inner = new InnerClass();  inner.innerMethod();  }  class InnerClass {  public void innerMethod() {  System.out.println(x);  }    }  public void method(){  System.out.println(x);  }  }  What will be output of above program? | 2 |
| Q18 | public static void main(String... s) {  // INSERT DECLARATION HERE  for (int i = 0; i <= 10; i++) {  List<Integer> row = new ArrayList<Integer>();  for (int j = 0; j <= 10; j++)  row.add(i \* j);  table.add(row);  }  for (List<Integer> row : table)  System.out.println(row);  }  Which statements could be inserted at // INSERT DECLARATION HERE to allow this code to compile and run? (Choose all that apply.)   1. List<List<Integer>> table = new List<List<Integer>>(); 2. List<List<Integer>> table = new ArrayList<List<Integer>>(); 3. List<List<Integer>> table = new ArrayList<ArrayList<Integer>>(); 4. List<List, Integer> table = new List<List, Integer>(); 5. List<List, Integer> table = new ArrayList<List, Integer>(); 6. List<List, Integer> table = new ArrayList<ArrayList, Integer>(); 7. None of the above | 2 |
| Q19 | public class AnonymousTesting {  public static void main(String... args) {  System.out.println("Inside main method");  TopLevel topobj = new TopLevel (1) {  void aMethod() {  System.out.println("aMethod::anonymousinner “);  }  };  topobj.aMethod();  }  }  class TopLevel {  int i;  void aMethod() {  System.out.println("aMethod::TopLevel");  }  public TopLevel(int i) {  this.i = i;  }  }  What will be output of above program?   1. Compilation fails 2. aMethod::TopLevel 3. aMethod::anonymousinner 4. No Output | 2 |
| Q20 | Which is true? (Choose all that apply.)   1. "X extends Y" is correct if and only if X is a class and Y is an interface 2. "X extends Y" is correct if and only if X is an interface and Y is a class 3. "X extends Y" is correct if X and Y are either both classes or both interfaces 4. "X extends Y" is correct for all combinations of X and Y being classes and/or | 2 |
| Q21 | Given :  class CardBoard {    Short story = 200;    CardBoard go(CardBoard cb) {  cb = null;  return cb;  }  public static void main(String[] args) {  CardBoard c1 = new CardBoard();  CardBoard c2 = new CardBoard();  CardBoard c3 = c1.go(c2);  c1 = null;  // do Stuff  }  }  When // doStuff is reached, how many objects are eligible for GC?   1. 0 2. 1 3. 2 4. Compilation fails 5. It is not possible to know 6. An exception is thrown at runtime | 2 |
| Q22 | class Alien {  String invade(short ships) {  return "a few";  }  String invade(short... ships) {  return "many";  }  }  class Defender {  public static void main(String[] args) {  System.out.println(new Alien().invade(7));  }  }  What will be output of above program?   1. many 2. a few 3. Compilation fails 4. The output is not predictable 5. An exception is thrown at runtime | 2 |
| Q23 | class Mixer {  Mixer() {  }  Mixer(Mixer m) {  m1 = m;  }  Mixer m1;  public static void main(String[] args) {  Mixer m2 = new Mixer();  Mixer m3 = new Mixer(m2);  m3.go();  Mixer m4 = m3.m1;  m4.go();  Mixer m5 = m2.m1;  m5.go();  }  void go() {  System.*out*.print("hi ");  }  }  What will be output of above program?   1. hi 2. hi hi 3. hi hi hi 4. Compilation fails 5. hi, followed by an exception 6. hi hi, followed by an exception | 2 |
| Q24 | class SuperClass  {  public int i = 0;  public SuperClass(String text)  {  i = 1;  }  }  class Childclass extends SuperClass  {  int i = 0;    public Childclass(String text)  {  super(text);  i = 2;  }  public static void main(String args[])  {  Childclass childclass = new Childclass("Hello");  System.*out*.println(((SuperClass)childclass).i);  }  }  What will be output of above program? | 2 |
| Q25 | class Fizz {  int x = 5;  public static void main(String[] args) {  final Fizz f1 = new Fizz();  Fizz f2 = new Fizz();  Fizz f3 = FizzSwitch(f1, f2);  System.out.println((f1 == f3) + " " + (f1.x == f3.x));  }  static Fizz FizzSwitch(Fizz x, Fizz y) {  final Fizz z = x;  z.x = 6;  return z;  }  }  What will be output of above program? | 2 |