**DURATION 45 minutes**

**MAX MARKS 25**

**Q 1. Given:**

class Foo {

public int i = 3;

}

public class Test {

public static void main(String args[]) {

Object o = (Object)new Foo();

Foo foo = (Foo)o;

System.out.println(“i = “ + foo.i);

}

}

**What is the result?**

A. i = 3

B. Compilation fails.

C. A ClassCastException is thrown at line 6.

D. A ClassCastException is thrown at line 7.

Q 2

**Which two cause a compiler error? (Choose two)**

A. float[] = new float(3);

B. float f2[] = new float[];

C. float[] f1 = new float[3];

D. float f3[] = new float[3];

E. float f5[] = { 1.0f, 2.0f, 2.0f };

F. float f4[] = new float[] { 1.0f, 2.0f, 3.0f};

**Q 3**

**Given:**

1. interface Animal {

2. void soundOff();

3. }

4.

5. class Elephant implements Animal {

6. public void soundOff() {

7. System.out.println(“Trumpet”);

8. }

9. }

10.

11. class Lion implements Animal {

12. public void soundOff() {

13. System.out.println(“Roar”);

14. }

15. }

16.

17. class Alpha1 {

18. static Animal get( String choice ) {

19. if ( choice.equalsIgnoreCase( “meat eater” )) {

20. return new Lion();

21. } else {

22. return new Elephant();

23. }

24. }

25. }

**Which compiles?**

A. new Animal().soundOff();

B. Elephant e = new Alpha1();

C. Lion 1 = Alpha.get(“meat eater”);

D. new Alpha1().get(“veggie”).soundOff();

**QUESTION NO: 4**

**Given:**

1. class A {

2. A() { }

3. }

4.

5. class B extends A {

6. }

**Which two statements are true? (Choose two)**

A. Class B’s constructor is public.

B. Class B’s constructor has no arguments.

C. Class B’s constructor includes a call to this().

D. Class B’s constructor includes a call to super().

**QUESTION NO: 5**

**You want a class to have access to members of another class in the same package. Which**

**is the most restrictive access that accomplishes this objective?**

A. public

B. private

C. protected

D. transient

E. default access

**QUESTION NO: 6**

**Given:**

11. int x = 3;

12. int y = 1;

13. if (x = y) {

14. System.out.println(“x = “ + x);

15. }

**What is the result?**

A. x = 1

B. x = 3

C. Compilation fails.

D. The code runs with no output.

E. An exception is thrown at runtime.

**QUESTION NO: 7**

**Given:**

1. public interface Foo {

2. int k = 4;

3. }

**Which three are equivalent to line 2? (Choose three)**

A. final int k = 4;

B. public int k = 4;

C. static int k = 4;

D. abstract int k = 4;

E. volatile int k = 4;

F. protected int k = 4;

**QUESTION NO: 8**

**Given:**

1. class A {

2. protected int method1(int a, int b) { return 0; }

3. }

**Which two are valid in a class that extends class A? (Choose two)**

A. public int method1(int a, int b) { return 0; }

B. private int method1(int a, int b) { return 0; }

C. private int method1(int a, long b) { return 0; }

D. public short method1(int a, int b) { return 0: }

E. static protected int method1(int a, int b) { return 0; }

**QUESTION NO: 9**

**Given:**

1. public class Delta {

2. static boolean foo(char c) {

3. System.out.print(c);

4. return true;

5. }

6. public static void main( String[] argv ) {

7. int i =0;

8. for ( foo(‘A’); foo(‘B’)&&(i<2); foo(‘C’)){

9. i++ ;

10. foo(‘D’);

12. }

13. }

14. }

**What is the result?**

A. ABDCBDCB

B. ABCDABCD

C. Compilation fails.

D. An exception is thrown at runtime.

**QUESTION NO: 10**

**Given:**

1. public class ArrayTest {

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

3. float fl[], f2[];

4. fl = new float[10];

5. f2 = f1;

6. System.out.println(“f2[0]= “ + f2[0]);

7. }

8. }

**What is the result?**

A. It prints f2[0] = 0.0.

B. It prints f2[0] = NaN.

C. An error at line 5 causes compile to fail.

D. An error at line 6 causes compile to fail.

E. An error at line 6 causes an expectation at runtime.

**QUESTION NO: 11**

**Given:**

1. public class Test {

2. public int aMethod() {

3. static int i = 0;

4. i++;

5. return i;

6. }

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

8. Test test = new Test();

9. test.aMethod();

10. int j = test.aMethod();

11. System.out.println(j);

12. }

13. }

**What is the result?**

A. 0

B. 1

C. 2

D. Compilation fails.

**QUESTION NO: 12**

**Given:**

1. class Super {

2. public float getNum() { return 3.0f; }

3. }

4.

5. public class Sub extends Super {

6.

7. }

**Which method, placed at line6, causes compilation to fail?**

A. public void getNum() { }

B. public void getNum(double d) { }

C. public float getNum() { return 4.0f; }

D. public double getNum(float d) { return 4.0d; }

**QUESTION NO: 13**

**Given:**

1. class TestSuper {

2. TestSuper(int i) { }

3. }

4. class TestSub extends TestSuper{ }

5. class TestAll {

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

7. new TestSub();

8. }

9. }

**Which is true?**

A. Compilation fails.

B. The code runs without exception.

C. An exception is thrown at line 7.

D. An exception is thrown at line 2.

**QUESTION NO: 14**

**Given:**

10. int i = 0;

11. for (; i <4; i += 2) {

12. System.out.print(i + “”);

13. }

14. System.out.println(i);

**What is the result?**

A. 0 2 4

B. 0 2 4 5

C. 0 1 2 3 4

D. Compilation fails.

E. An exception is thrown at runtime.

**QUESTION NO: 15**

**Given:**

1. public class SwitchTest {

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

3. System.out.println(“value = “ + switchIt(4));

4. }

5. public static int switchIt(int x) {

6. int j = 1;

7. switch (x) {

8. case 1: j++;

9. case 2: j++;

10. case 3: j++;

11. case 4: j++;

12. case 5: j++;

13. default: j++;

14. }

15. return j + x;

16. }

17. }

**What is the result?**

A. value = 3

B. value = 4

C. value = 5

D. value = 6

E. value = 7

F. value = 8

**QUESTION NO: 16**

**Which three form part of correct array declarations? (Choose three)**

A. public int a []

B. static int [] a

C. public [] int a

D. private int a [3]

E. private int [3] a []

F. public final int [] a

**QUESTION NO: 17**

**Given:**

1. class Super {

2. public Integer getLenght() { return new Integer(4); }

3. }

4.

5. public class Sub extends Super {

6. public Long GetLenght() { return new Long(5); }

7.

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

9. Super sooper = new Super();

10. Sub sub = new Sub();

11. System.out.println(

12. sooper.getLenght().toString() + “,” +

13. sub.getLenght().toString() );

14. }

15. }

**What is the output?**

A. 4,4

B. 4,5

C. 5,4

D. 5,5

E. Compilation fails.

**QUESTION NO: 18**

**Given:**

1. class Base {

2. Base() { System.out.print(“Base”); }

3. }

4. public class Alpha extends Base {

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

6. new Alpha();

7. new Base();

8. }

9. }

**What is the result?**

A. Base

B. BaseBase

C. Compilation fails.

D. The code runs with no output.

E. An exception is thrown at runtime.

**QUESTION NO: 19**

**Given:**

11. int i = 1,j = -1;

12. switch (i) {

13. case 0, 1:j = 1;

14. case 2: j = 2;

15. default; j = 0;

16. }

17. System.out.println(“j=”+j);

**What is the result?**

A. j = -1

B. j = 0

C. j = 1

D. j = 2

E. Compilation fails.

**QUESTION NO: 20**

**Which two are valid declarations within an interface definition? (Choose two)**

A. void methoda();

B. public double methoda();

C. public final double methoda();

D. static void methoda(double d1);

E. protected void methoda(double d1);

**QUESTION NO: 21**

**Which two allow the class Thing to be instantiated using new Thing()? (Choose two)**

A. public class Thing {

}

B. public class Thing {

public Thing() {}

}

C. public class Thing {

public Thing(void) {}

}

D. public class Thing {

public Thing(String s) {}

}

E. public class Thing {

public void Thing() {}

public Thing(String s) {}

}

**QUESTION NO: 22**

**Given:**

11. for (int i =0; i <3; i++) {

12. switch(i) {

13. case 0: break;

14. case 1: System.out.print(“one “);

15. case 2: System.out.print(“two “);

16. case 3: System.out.print(“three “);

17. }

18. }

19. System.out.println(“done”);

**What is the result?**

A. done

B. one two done

C. one two three done

D. one two three two three done

E. Compilation fails.

**QUESTION NO: 23**

**Which two create an instance of an array? (Choose two)**

A. int[] ia = new int[15];

B. float fa = new float[20];

C. char[] ca = “Some String”;

D. Object oa = new float[20];

E. int ia[][] = { 4, 5, 6, }, { 1, 2, 3 };

**QUESTION NO: 24**

**Given:**

1. public class Foo {

2. public void main( String[] args ) {

3. System.out.println( “Hello” + args[0] );

4. }

5. }

**What is the result if this code is executed with the command line?**

java Foo world

A. Hello

B. Hello Foo

C. Hello world

D. Compilation fails.

E. The code does not run.

**QUESTION NO: 25**

**Which two cause a compiler error? (Choose two)**

A. int[] scores = {3, 5, 7};

B. int [][] scores = {2,7,6}, {9,3,45};

C. String cats[] = {“Fluffy”, “Spot”, “Zeus”};

D. boolean results[] = new boolean [3] {true, false, true};

E. Integer results[] = {new Integer(3), new Integer(5), new

Integer(8)};

F. String[] dogs = new String[]{new String(“Fido”),new

String(“Spike”), new String(“Aiko”)};