Q1 .

**public** **class** Test {

**int** z=10;

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

Test myScope = **new** Test();

**int** z = 6;

System.***out***.println(z);

*doStuff*();

System.***out***.println(z);

System.***out***.println(myScope.z);

}

**static** **void** doStuff() {

**int** z = 5;

*doStuff2*();

System.***out***.println(z);

}

**static** **void** doStuff2()

{

**int** z = 4;

}

}

Choose the correct one:

1. 6 5 6 10
2. 6 6 6 6
3. 6 4 5 4
4. Compilation Error

Q2 .

**interface** Myservice{

**void** getData() **throws** SQLException;

}

**public** **class** Test **implements** Myservice {

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

}

//code inserted

}

What is the valid code to be inserted in commented area?

1.

**public** **void** getData() **throws** SQLException {

// **TODO** Auto-generated method stub

}

2.

**public** **void** getData() {

// **TODO** Auto-generated method stub

}

3.

**public** **void** getData() **throws** IOException {

// **TODO** Auto-generated method stub

}

4.

**public** **void** getData() **throws** Exception {

// **TODO** Auto-generated method stub

}

Q 3.

**class** B **extends** Test{

**public** **void** getData(){

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

}

}

**public** **class** Test {

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

Test t=**new** B();

B b=**new** B();

t.getData();//Line 1

((B) t).getData(); //Line 2

((B)) t.getData();//Line3

b.getData();//Line4

}

}

Which of the line will give compilation error?

1.Line 1

2 Line 2

3 Line 3

4 Line 4

Q4

**class** B {

B(){

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

}

B(String s){

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

}

}

**public** **class** Test **extends** B {

**public** Test(String s) {

System.***out***.print("D");

}

**public** Test() {

// **TODO** Auto-generated constructor stub

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

}

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

**new** Test("C");

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

}

}

Choose the correct One:

1. J D
2. D
3. A D J B
4. J B A D
5. Compilation error

Q5 **class** A{

String a="A";

**public** String getData(){

**return** "Hi";

}

}

**class** B **extends** A {

String a="B";

**public** String getData(){

**return** "Bye";

}

}

**public** **class** Test {

**public** **static** **void** go(){

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

System.***out***.println(a.a+" "+a.getData());

}

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

*go*();

}

}

Choose the correct output

1. B Bye
2. A Bye
3. A Hi
4. B Hi
5. Compilation error

Q6 **class** A{

A(){

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

}

A(String a){

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

}

}

**class** B **extends** A {

B(){

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

}

B(String a){

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

}

}

**public** **class** Test {

**public** **static** **void** go(){

**new** B();

}

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

*go*();

}

}

Choose Correct One

1. a b
2. A B
3. a B
4. b
5. a

Q 7

**class** A{

A(){

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

}

A(String a){

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

}

}

**class** B **extends** A {

B(){

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

}

B(String a){

**this**();

System.***out***.println("B"+a);

}

}

**public** **class** Test {

**public** **static** **void** go(){

**new** B("C");

}

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

*go*();

}

}

Choose the correct one

1. a b BC default constructor.
2. b BC
3. BC
4. a AC
5. AC

Q 8.

**class** X { **void** do1() { } }

**class** Y **extends** X { **void** do2() { } }

**public** **class** Test {

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

X x1 = **new** X();

X x2 = **new** Y();

Y y1 = **new** Y();

//insert code here

}

}

Which of the following, 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

Q 9

**public** **class** Test {

Test() { *main*("hi"); }

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

System.***out***.print("2 ");

}

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

System.***out***.print("3 " + args);

}

}

What is the result? (Choose all that apply.)

1. 2 will be included in the output

2. 3 will be included in the output

3. hi will be included in the output

4. Compilation fails

5. An exception is thrown at runtime

Q10 Given:

public abstract interface Frobnicate { public void twiddle(String s); }

Which is a correct class? (Choose all that apply.)

A. public abstract class Frob implements Frobnicate {

public abstract void twiddle(String s) { }

}

B. public abstract class Frob implements Frobnicate { }

C. public class Frob extends Frobnicate {

public void twiddle(Integer i) { }

}

D. public class Frob implements Frobnicate {

public void twiddle(Integer i) { }

}

E. public class Frob implements Frobnicate {

public void twiddle(String i) { }

public void twiddle(Integer s) { }

}

Q11

**public** **class** Test {

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

System.***out***.print("answer is "+3+6+7);

System.***out***.print("answer is "+(3+6+7));

}

}

Choose the correct One

1 answer is 367answer is 16

2. answer is 16 answer is 16

3. compilation error

4. Runtime exception

Q12.

**public** **class** Test {

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

Days d1 = Days.***TH***;

Days d2 = Days.***M***;

**for**(Days d: Days.*values*()) {

**if**(d.equals(Days.***F***)) **break**;

d2 = d;

}

System.***out***.println((d1 == d2)?"same old" : "newly new");

}

**enum** Days {***M***, ***T***, ***W***, ***TH***, ***F***, ***SA***, ***SU***};

}

What is the result?

1. same old

2. newly new

3. Compilation fails due to multiple errors

4RunTime Exception

Q13.

**public** **class** Test {

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

X x=**new** X();

X y=**new** Y();

**if**(x **instanceof** Object){

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

}

**if**(y **instanceof** Y){

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

}

Y y1=(Y) x;

**if**(y1 **instanceof** X){

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

}

}

}

What is the result?

1. True True Exception

2. True True True

3. Compilation fails due to multiple errors

4RunTime Exception

5 True Exception

Q14.

**public** **class** Test {

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

**int**[][] ba = {{1,2,3,4}, {1,2,3}};

System.***out***.println(ba[1].length + " " + ba.length);

}

}

What is the result?

1. 3 2

2. 4 3

3. Compilation fails

4RunTime Exception

5 4 6

6 4 4

Q15 .

Given:

3. class Dozens {

4. int[] dz = {1,2,3,4,5,6,7,8,9,10,11,12};

5. }

6. public class Eggs {

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

8. Dozens [] da = new Dozens[3];

9. da[0] = new Dozens();

10. Dozens d = new Dozens();

11. da[1] = d;

12. d = null;

13. da[1] = null;

14. // do stuff

15. }

16. }

Which two are true about the objects created within main(), and which are eligible for garbage

collection when line 14 is reached?

A. Three objects were created

B. Four objects were created

C. Five objects were created

D. Zero objects are eligible for GC

E. One object is eligible for GC

F. Two objects are eligible for GC

G. Three objects are eligible for GC

Q16.

**public** **class** Test {

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

ArrayList<String> myList = **new** ArrayList<String>();

myList.add("One");

myList.add(3,"Two");

myList.add("Three");

myList.add("Four");

}

}

What is the result?

1. java.lang.IndexOutOfBoundsException

2. One Three Four Two

3. Compilation fails

4RunTime Exception

5 One Two Three Four

Q17.

**.**Given:

1. class Dims {

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

3. int[][] a = {{1,2}, {3,4}};

4. int[] b = (int[]) a[1];

5. Object o1 = a;

6. int[][] a2 = (int[][]) o1;

7. int[] b2 = (int[]) o1;

8. System.out.println(b[1]);

9. } }

What is the result? (Choose all that apply.)

A. 2

B. 4

C. An exception is thrown at runtime

D. Compilation fails due to an error on line 4

E. Compilation fails due to an error on line 5

F. Compilation fails due to an error on line 6

G. Compilation fails due to an error on line 7

Q18.

Given:

3. class Box {

4. int size;

5. Box(int s) { size = s; }

6. }

7. public class Laser {

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

9. Box b1 = new Box(5);

10. Box[] ba = go(b1, new Box(6));

11. ba[0] = b1;

12. for(Box b : ba) System.out.print(b.size + " ");

13. }

14. static Box[] go(Box b1, Box b2) {

15. b1.size = 4;

16. Box[] ma = {b2, b1};

17. return ma;

18. }

19. }

What is the result?

A. 4 4

B. 5 4

C. 6 4

D. 4 5

E. 5 5

F. Compilation fails

Q19

Given:

3. public class Circles {

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

5. int[] ia = {1,3,5,7,9};

6. for(int x : ia) {

7. for(int j = 0; j < 3; j++) {

8. if(x > 4 && x < 8) continue;

9. System.out.print(" " + x);

10. if(j == 1) break;

11. continue;

12. }

13. continue;

14. }

15. }

16. }

What is the result?

A. 1 3 9

B. 5 5 7 7

C. 1 3 3 9 9

D. 1 1 3 3 9 9

E. 1 1 1 3 3 3 9 9 9

F. Compilation fails

Q 20

Given:

3. public class OverAndOver {

4. static String s = "";

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

6. try {

7. s += "1";

8. throw new Exception();

9. } catch (Exception e) { s += "2";

10. } finally { s += "3"; doStuff(); s += "4";

11. }

12. System.out.println(s);

13. }

14. static void doStuff() { int x = 0; int y = 7/x; }

15. }

What is the result?

A. 12

B. 13

C. 123

D. 1234

E. Compilation fails

F. 123 followed by an exception

G. 1234 followed by an exception

H. An exception is thrown with no other output

**Q21**

Given:

3. public class Wind {

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

5. foreach:

6. for(int j=0; j<5; j++) {

7. for(int k=0; k< 3; k++) {

8. System.out.print(" " + j);

9. if(j==3 && k==1) break foreach;

10. if(j==0 || j==2) break;

11. }

12. }

13. }

14. }

What is the result?

A. 0 1 2 3

B.1 1 1 3 3

C. 0 1 1 1 2 3 3

D. 1 1 1 3 3 4 4 4

E. 0 1 1 1 2 3 3 4 4 4

F. Compilation fails

Q22

Given:

3. public class Gotcha {

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

5. // insert code here

6.

7. }

8. void go() {

9. go();

10. }

11. }

And given the following three code fragments:

I. new Gotcha().go();

II. try { new Gotcha().go(); }

catch (Error e) { System.out.println("ouch"); }

III. try { new Gotcha().go(); }

catch (Exception e) { System.out.println("ouch"); }

When fragments I–III are added, independently, at line 5, which are true?

(Choose all that apply.)

A. Some will not compile

B. They will all compile

C. All will complete normally

D. None will complete normally

E. Only one will complete normally

F. Two of them will complete normally

**Q22**

Given the code snippet:

String s = "bob";

String[] sa = {"a", "bob"};

final String s2 = "bob";

StringBuilder sb = new StringBuilder("bob");

// switch(sa[1]) { // line 1

// switch("b" + "ob") { // line 2

// switch(sb.toString()) { // line 3

// case "ann": ; // line 4

// case s: ; // line 5

// case s2: ; // line 6

}

And given that the numbered lines will all be tested by un-commenting one switch statement

and one case statement together, which line(s) will FAIL to compile? (Choose all that apply.)

A. line 1

B. line 2

C. line 3

D. line 4

E. line 5

F. line 6

G. All six lines of code will compile

**Q23**

Given:

1. public class Frisbee {

2. // insert code here

3. int x = 0;

4. System.out.println(7/x);

5. }

6. }

And given the following four code fragments:

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

II. public static void main(String[] args) throws Exception {

III. public static void main(String[] args) throws IOException {

IV. public static void main(String[] args) throws RuntimeException {

If the four fragments are inserted independently at line 2, which are true? (Choose all that apply.)

A. All four will compile and execute without exception

B. All four will compile and execute and throw an exception

C. Some, but not all, will compile and execute without exception

D. Some, but not all, will compile and execute and throw an exception

E. When considering fragments II, III, and IV, of those that will compile, adding a try/catch

block around line 4 will cause compilation to fail

**Q25**

Given:

2. class MyException extends Exception { }

3. class Tire {

4. void doStuff() { }

5. }

6. public class Retread extends Tire {

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

8. new Retread().doStuff();

9. }

10. // insert code here

11. System.out.println(7/0);

12. }

13. }

And given the following four code fragments:

I. void doStuff() {

II. void doStuff() throws MyException {

III. void doStuff() throws RuntimeException {

IV. void doStuff() throws ArithmeticException {

When fragments I–IV are added, independently, at line 10, which are true? (Choose all that apply.)

A. None will compile

B. They will all compile

C. Some, but not all, will compile

D. All of those that compile will throw an exception at runtime

E. None of those that compile will throw an exception at runtime

F. Only some of those that compile will throw an exception at runtime

Q26

**class** Sub **extends** Exception{

}

**class** SubSub **extends** Sub{

}

**class** A{

**void** getData() **throws** Sub{

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

}

}

**public** **class** Test **extends** A{

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

**new** Test().getData();

}

**void** getData() **throws** Exception {

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

}

}

Choose the correct One?

1. Compilation Error
2. Run Time Exception
3. Hi byee
4. Byee
5. Hi

Q27.

Given:

4. public class SpecialOps {

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

6. String s = "";

7. boolean b1 = true;

8. boolean b2 = false;

9. if((b2 = false) | (21%5) > 2) s += "x";

10. if(b1 || (b2 == true)) s += "y";

11. if(b2 == true) s += "z";

12. System.out.println(s);

13. }

14. }

Which are true? (Choose all that apply.)

A. Compilation fails

B. x will be included in the output

C. y will be included in the output

D. z will be included in the output

E. An exception is thrown at runtime

**Q28**

Given:

3. public class Spock {

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

5. int mask = 0;

6. int count = 0;

7. if( ((5<7) || (++count < 10)) | mask++ < 10 ) mask = mask + 1;

8. if( (6 > 8) ^ false) mask = mask + 10;

9. if( !(mask > 1) && ++count > 1) mask = mask + 100;

10. System.out.println(mask + " " + count);

11. }

12. }

Which two are true about the value of mask and the value of count at line 10? (Choose two.)

A. mask is 0

B. mask is 1

C. mask is 2

D. mask is 10

E. mask is greater than 10

F. count is 0

G. count is greater than 0

Q29

Given:

3. interface Vessel { }

4. interface Toy { }

5. class Boat implements Vessel { }

6. class Speedboat extends Boat implements Toy { }

7. public class Tree {

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

9. String s = "0";

10. Boat b = new Boat();

11. Boat b2 = new Speedboat();

12. Speedboat s2 = new Speedboat();

13. if((b instanceof Vessel) && (b2 instanceof Toy)) s += "1";

14. if((s2 instanceof Vessel) && (s2 instanceof Toy)) s += "2";

15. System.out.println(s);

16. }

17. }

What is the result?

A. 0

B. 01

C. 02

D. 012

E. Compilation fails

F. An exception is thrown at runtime

Q30

Given:

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 the command-line invocation:

java Fork live2

What is the result?

A. test case

B. production live2

C. test case live2

D. Compilation fails

E. An exception is thrown at runtime