

1) What is the output for the below code?

```
public class A {  
    public void printValue(){  
        System.out.println("A");  
    }  
}  
  
public class B extends A {  
    public void printValue(){  
        System.out.println("B");  
    }  
}  
  
public class Test {  
    public static void main(String[] args) {  
        A b = new B();  
        b.printValue();  
    }  
}
```

2) public class TypeConversion {
public static void main(String[] args) {
 float f1=11;
 float f2=11.f;
 f2=f1+f2;
 System.out.println(f2);
}
}

What will output when you compile and run the above code?

a) 22

- b) 22.0
- c) 22.0f
- d) Compile error

3) Give the list of methods in Object class of Java.

4) What will be the result of compiling and run the following code:

```
public class Test {  
  
    public static void main(String... args) throws Exception {  
        Integer i = 34;  
        int l = 34;  
        if(i.equals(l)){  
            System.out.println(true);  
        }else{  
            System.out.println(false);  
        }  
    }  
}
```

- a) True
- b) False
- c) Compile error
- d) None of the above

.

5) What is the output for the below code ?

```
public class Test {  
  
    public static void main(String... args) {
```

```
int x =5;
x *= 3 + 7;
System.out.println(x);
}
}
```

- a) 22
- b) 50
- c) 10
- d) Compilation fails with an error at line 4

6)What is the output for the below code ?

```
public class Test {
    public static void main(String[] args){
        for(int i=0;i < 5;i++){
            boolean isTrue = false;
            if(i == 5){
                isTrue = true;
            }
        }
        System.out.println(isTrue);
    }
}
```

- a) True
 - b) False
 - c) Compilation fails with an error at line 5
 - d) Compilation fails with an error at line 9
-

```
7) public class This {
```

```
    int i;
```

```
    This(){
```

```
        this.i++;
```

```
    } i++;
```

```
}
```

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

```
    This o=new This();
```

```
    System.out.print(o.i);
```

```
}
```

```
}
```

- a) What will be output of above program?
- b) Non static variable must be initialized, Compiler error
- c) 1
- d) 2
- e) Garbage value

```
8) public class This {
```

```
    int a=10;
```

```
    This(){
```

```
        int a=5;
```

```
        this.a--;
```

```
}
```

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

```
    This o=new This();
```

```
System.out.println(o.a);  
}  
}
```

What will be output of above program?

- a) 9
- b) 5
- c) 4
- d) Duplicate local variable, Compiler error

9) What is the output for the below code ?

```
public class A {
```

```
    public A(int i){  
        System.out.println(i);  
    }
```

```
}
```

```
public class B extends A{
```

```
    public B(){  
        super(6);  
        this();  
    }  
}
```

```
public class Test{
```

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

```
B b = new B();  
}  
}
```

- A) 6
 - b) 0
 - c) Compilation fails due to an error on lines 3
 - d) Compilation fails due to an error on lines 4
-

10) What is the output for the below code ?

```
public class A {  
    int add(int i, int j){  
        return i+j;  
    }  
}  
  
public class B extends A{  
    public static void main(String argv[]){  
        short s = 9;  
        System.out.println(add(s,6));  
    }  
}
```

- a) Compile fail due to error on line no 2
 - b) Compile fail due to error on line no 4
 - c) Compile fail due to error on line no 8
 - d) 15
-

11) What is the output for the below code?

```
public class A {  
    public A() {  
        System.out.println("A");  
    }  
}
```

```
public class B extends A implements Serializable {  
    public B() {  
        System.out.println("B");  
    }  
}
```

```
public class Test {
```

```
    public static void main(String... args) throws Exception {  
        B b = new B();
```

```
        ObjectOutputStream save = new ObjectOutputStream(new FileOutputStream("datafile"));  
        save.writeObject(b);  
        save.flush();
```

```
        ObjectInputStream restore = new ObjectInputStream(new FileInputStream("datafile"));  
        B z = (B) restore.readObject();  
  
    }  
}
```

a) A B A

b) A B A B

c) B B

d) B

```
12) public class A {  
    public void test1(){  
        System.out.println("test1");  
    }  
}
```

```
public class B extends A{  
    public void test2(){  
        System.out.println("test2");  
    }  
}
```

```
1. public class Test{  
2. public static void main (String[] args){  
3. A a = new A();  
4. A b = new B();  
5. B b1 = new B();  
6. // insert code here  
7. }  
8. }
```

Which of the following , inserted at line 6, will compile and print test2?

- a) ((B)b).test2();
 - b) (B)b.test2();
 - c) b.test2();
 - d) a.test2();
-

13)What is the output for the below code ?

```
public class D {  
    int i;  
    int j;  
    public D(int i,int j){  
        this.i=i;  
        this.j=j;  
    }  
  
    public void printName() {  
        System.out.println("Name-D");  
    }  
  
}
```

```
1. public class Test{  
2. public static void main (String[] args){  
3. D d = new D();  
4. d.printName();  
5.  
6. }  
7. }
```

- a) Name-D
 - b) Compilation fails due to an error on lines 3
 - c) Compilation fails due to an error on lines 4
 - d) Compilation fails due to an error on lines 4
-

14)HashMap can be synchronized by _____ ?

- a)Map m = Collections.synchronizeMap(hashMap);
 - b)Map m = hashMap.synchronizeMap();
 - c) Map m = Collection.synchronizeMap(hashMap);
 - d) None of the above
-

15)public class Loop {

public static void main(String[] args){

for(int i=0;false;i++){

System.out.println("java");

}

}

}

- a) What will be output of above program?
 - b) Compiler error
 - c) It will not print anything.
 - d) Null
 - e) java
-

16)class A {

A(String s) {

}

A() {

}

}

1. class B extends A {

```
2. B() { }  
3. B(String s) {  
4. super(s);  
5. }  
6. void test() {  
7. // insert code here  
8. }  
9. }
```

Which of the below code can be insert at line 7 to make clean compilation ?

- a) A a = new B();
- b) A a = new B(5);
- c) A a = new A(String s);
- d) All of the above

17) What is the output for the below code ?

```
public class A {  
    static{System.out.println("static");}  
    { System.out.println("block");}  
    public A(){  
        System.out.println("A");  
    }  
}
```

```
public static void main(String[] args){  
    A a = new A();  
}  
}
```

- a) A block static

b) static block A

c) static A

e) A

18)What is the output for the below code?

```
import java.util.Iterator;
```

```
import java.util.TreeSet;
```

```
public class Test {
```

```
    public static void main(String... args) {
```

```
        TreeSet s1 = new TreeSet();
```

```
        s1.add("one");
```

```
        s1.add("two");
```

```
        s1.add("three");
```

```
        s1.add("one");
```

```
        Iterator it = s1.iterator();
```

```
        while (it.hasNext() ) {
```

```
            System.out.print( it.next() + " " );
```

```
        }
```

```
    }
```

```
}
```

a) one three two

b) Runtime Exception

c) one three two one

d) one two three

20) Can we declare abstract method as final?

21) Can we have finally block without catch block?

22) What modifiers are allowed for methods in an Interface?

- a) private
 - b) protected
 - c) public
 - d) default
-

23) What is the difference between while and do-while statements?

24) What happens if you do not provide a constructor?

25) What is inheritance?

26) What is the method overriding?

27) Can we inherit the constructors?

28) What is a static method?

29) Can an abstract class be final?

30) Is &&= a valid Java operator?

31) What is the difference between static and non-static variables?

32) What is the difference between a field variable and a local variable?

33) How are this() and super() used with constructors?

34) Read the following program:

```
public class test {  
    public static void main(String [] args) {  
        int x = 3;  
        int y = 1;  
        if (x = y)  
            System.out.println("Not equal");  
        else  
            System.out.println("Equal");  
    }  
}
```

What is the result?

- A. The output is "Equal"
- B. The output in "Not Equal"

- C. An error at " if (x = y)" causes compilation to fall.
 - D. The program executes but no output is show on console.
-

35) Consider the code below:

```
arr[0] = new int[4];  
arr[1] = new int[3];  
arr[2] = new int[2];  
arr[3] = new int[1];  
for( int n = 0; n < 4; n++ )  
System.out.println( /* what goes here? */ );
```

Which statement below, when inserted as the
body of the for loop, would print the number of values in each row?

- a) arr[n].length();
 - b) arr.size;
 - c) arr.size-1;
 - d) arr[n][size];
 - e) arr[n].length;
-

36) If val = 1 in the code below:

```
switch( val )  
{ case 1: System.out.print( "P" );  
  case 2:  
  case 3: System.out.print( "Q" );  
    break;  
  case 4: System.out.print( "R" );  
  default: System.out.print( "S" );
```

}

Which values would be printed?

- a) P
 - b) Q
 - c) R
 - d) S
 - e) pq
-

37) Consider the code below:

```
void myMethod()
{
    try
    {
        fragile();
    }
    catch( NullPointerException npex )
    {
        System.out.println( "NullPointerException thrown " );
    }
    catch( Exception ex )
    {
        System.out.println( "Exception thrown " );
    }
    finally
    {
        System.out.println( "Done with exceptions " );
    }
    System.out.println( "myMethod is done" );
}
```


What is printed to standard output if fragile()
throws an IllegalArgumentException?

- a) "NullPointerException thrown"
 - b) "Exception thrown"
 - c) "Done with exceptions"
 - d) "myMethod is done"
 - e) Nothing is printed
-

38) Assume that Sub1 and Sub2 are both
subclasses of class Super.

Given the declarations:

```
Super super = new Super();
```

```
Sub1 sub1 = new Sub1();
```

```
Sub2 sub2 = new Sub2();
```

Which statement best describes the result of
attempting to compile and execute the following statement:

```
super = sub1;
```

- a) Compiles and definitely legal at runtime
 - b) Does not compile
 - c) Compiles and may be illegal at runtime
-

39) If s1 is declared as:

```
String s1 =
```

```
"phenobarbital";
```

What will be the value of s2 after
the following line of code:

```
String s2 = s1.substring( 3, 5 );
```

- a) null

- b) "eno"
 - c) "enoba"
 - d) "no"
-

40) Which of the following are valid definitions of an application's main() method?

- a) public static void main();
 - b) public static void main(String args);
 - c) public static void main(String args[]);
 - d) public static void main(Graphics g);
 - e) public static boolean main(String args[]);
-

41) Which of the following are Java keywords?

- a) array
 - b) boolean
 - c) Integer
 - d) protect
 - e) super
-

