

**1.Which of the following method signatures is a valid declaration of an entry point in a Java application?**

- A. `public void main(String[] args)`
- B. `public static void main()`
- C. `private static void start(String[] mydata)`
- D. `public static final void main(String[] mydata)`

**2.What is the proper filename extension for a Java bytecode compiled file?**

- A. `.java`
- B. `.bytecode`
- C. `.class`
- D. `.dll`

**3.Which variables have a scope limited to a method?**

- A. Interface variables
- B. .Class variables
- C. Instance variables
- D. Local variables

**4. Which package is imported into every Java class by default?**

- A. `java.util`
- B. `java.lang`
- C. `system.lang`
- D. `java.system`

**5.Which of the following is not a valid code comment in Java?**

- A. `// Add 5 to the result`
- B. `/** TODO: Fix bug 12312 */`
- C. `# Add configuration value`
- D. `/* Read file from system */`

**6.Which statement about a valid .java file is true?**

- A. It can only contain one class declaration.
- B. It can contain one public class declaration and one public interface definition.
- C. It must define at least one public class.
- D. It may define at most one public class.

**8.What is the result of compiling and executing the following class?**

```
1: public class ParkRanger {  
2:     int birds = 10;  
3:     public static void main(String[] data) {  
4:         int trees = 5;  
5:         System.out.print(trees+birds);  
6:     }  
7: }
```

A. It does not compile.  
B. It compiles but throws an exception at runtime.  
C. It compiles and outputs 5.  
D. It compiles and outputs 15.

**9. Which of the following lines of code is not allowed as the first line of a Java class file?**

- A. import widget.\*;
- B. // Widget Manager
- C. package sprockets;
- D. int facilityNumber;

**10.What is the correct character for terminating a statement in Java?**

- A. A colon (:)
- B. An end-of-line character
- C. A tab character
- D. A semicolon (;)

**11.Given the following class definition, which is the only line that does not contain a compilation error?**

```
1: public ThisClassDoesNotCompile {  
2:     double int count;  
3:     void errors() {}  
4:     static void private limit; }
```

A. Line 1  
B. Line 2  
C. Line 3  
D. Line 4

**12.Which of the following features allows a Java class to be run on a wide variety of computers and devices?**

- A. Encapsulation
- B. Object oriented
- C. Inheritance
- D. Platform independence

**13.Given the following wildcard import statements, which class would be included in the import?**

```
import television.actor.*;  
import movie.director.*;
```

- A. television.actor.recurring.Marie
- B. movie.directors.John
- C. television.actor.Package
- D. movie.NewRelease

**14.Which is the correct order of statements for a Java class file?**

- A. import statements, package statement, class declaration
- B. package statement, class declaration, import statement
- C. class declaration, import statements, package declaration
- D. package statement, import statements, class declaration

**15.Which of the following is a true statement?**

- A. The java command compiles a .java file into a .class file.
- B. The javac command compiles a .java file into a .class file.
- C. The java command compiles a .class file into a .java file.
- D. The javac command compiles a .class file into a .java file.

**16.Which of the following statements about Java is true?**

- A. Java is a procedural programming language.
- B. Java allows method overloading.
- C. Java allows operator overloading.
- D. Java allows direct access to objects in memory.

**17. Given the following code, what values inserted in order into the blank lines, allow the code to compile?**

```
_____agent;  
public _____Banker  
{  
    private static_____getMaxWithdrawal()  
    {  
        return 10;  
    }  
}
```

- A. import, class, null
- B. import, interface, void
- C. package, int, int
- D. package, class, long

**18. Given the file Magnet.java below, which of the marked lines can you independently insert the line `public String color;` into and still have the code compile?**

```
// line a1  
public class Magnet {  
// line a2  
public void attach() {  
// line a3  
}  
// line a4  
}
```

- A. a1 and a3
- B. a2 and a4
- C. a2, a3, and a4
- D. a1, a2, a3, and a4

**19. What is required to define a valid Java class file?**

- A. A class declaration
- B. A package statement
- C. At least one import statement
- D. The public modifier

**20. What is the proper filename extension for a Java source file?**

- A. .jav
- B. .class
- C. .source
- D. .java

**21.What is the result of compiling and executing the following class?**

```
public class RollerSkates
{
    static int wheels = 1;
    int tracks = 5;
    public static void main(String[] arguments)
    {
        RollerSkates s = new RollerSkates();
        int feet=4, tracks = 15;
        System.out.print(feet + tracks + s.wheels);
    }
}
```

- A. The code does not compile.
- B. 5
- C. 10
- D. 20

**22.What is the result of compiling and executing the following class?**

```
package sports;
public class Bicycle
{
    String color = "red";
    private void printColor(String color)
    {
        color = "purple";
        System.out.print(color);
    }
    public static void main(String[] rider)
    {
        new Bicycle().printColor("blue");
    }
}
```

- A. Red
- B. Purple
- C. Blue
- D. It does not compile.

23.What is the result of compiling and executing the following application?

```
package forecast;  
public class Weather  
{  
private static boolean heatWave = true;  
public static void main()  
{  
boolean heatWave = false;  
System.out.print(heatWave);  
}  
}
```

- A. True
- B. False
- C. It does not compile.
- D. It compiles but throws an error at runtime.