1. **Which of the following is not a primitive data type in Java?**
    a) int
    b) float
    c) String
    d) char
2. **What is the main purpose of the JVM (Java Virtual Machine)?**
    a) To compile Java source code.
    b) To allow Java programs to run on any platform.
    c) To manage memory allocation automatically.
    d) To provide a graphical user interface.
3. **Which keyword is used to inherit a class in Java?**
    a) inherits
    b) extends
    c) implements
    d) super
4. **What is the output of the following code snippet?**
```
public class Main {
        public static void main(String[] args) {
                String s1 = "Hello";
                String s2 = new String("Hello");
                System.out.println(s1 == s2);
        }
}
```
    a) true
    b) false
    c) Compilation Error
    d) Hello
5. **Which of these is used to handle exceptions in Java?**
    a) if-else
    b) switch-case
    c) try-catch
    d) for-each
6. **What will be the output of the code below?**
```
public class Main {
        public static void main(String[] args) {
                System.out.println(10 + 5 + " Java");
                System.out.println("Java " + 10 + 5);
        }
}
```
    a) 15 Java and Java 15
    b) 105 Java and Java 105
    c) 15 Java and Java 105
    d) Compilation Error

7. **How do you properly declare a method that does not return any value?**
    a) method void myMethod() {}
    b) void myMethod() {}
    c) null myMethod() {}
    d) myMethod() {}

8. **The final keyword can be used with a _____**
    a) Variable
    b) Method
    c) Class
    d) All of the above

9. **Which collection class stores elements in a key-value pair format?**
    a) ArrayList
    b) HashSet
    c) HashMap
    d) LinkedList

10. **What is the purpose of a constructor in Java?**
    a) To destroy an object.
    b) To initialize the state of an object.
    c) To create a static method.
    d) To perform a deep copy of an object.

11. **Which of the following is the correct way to create an object of the class MyClass?**
    a) MyClass obj = new MyClass();
    b) MyClass obj = MyClass();
    c) new obj = MyClass();
    d) obj = new MyClass();

12. **What does the static keyword mean when applied to a method?**
    a) The method can only be called from static methods.
    b) The method belongs to the class, rather than an instance of the class.
    c) The method cannot be overridden.
    d) The method is automatically executed.

13. **What is the output of 5 & 6 in Java? (Bitwise AND)**
    a) 4
    b) 5
    c) 6
    d) 7

14. **An interface in Java can contain:**
    a) Only abstract methods.
    b) Only concrete methods.
    c) Abstract methods, default methods, and static methods.
    d) Only final variables.

15. **Which package is automatically imported into every Java program?**
    a) java.io

b) java.net

c) java.util

d) java.lang

16. **If int x = 10;, what is the value of x > 10 ? 20 : 30?**

   a) 10

   b) 20

   c) 30

   d) true

17. **Which of the following is an access modifier?**

   a) static

   b) final

   c) public

   d) abstract

18. **What is the correct syntax for an enhanced for loop (for-each)?**

   a) for (int i : array)

   b) for (int i in array)

   c) for (i < array.length)

   d) foreach (int i in array)

19. **The super keyword is used to:**

   a) Call the constructor of the current class.

   b) Call a method in the current class.

   c) Call the constructor or methods of the parent class.

   d) Create a superclass object.

20. **What is method overloading?**

   a) A class having two or more methods with the same name but different parameters.

   b) A subclass providing a specific implementation of a method from its superclass.

   c) A method that can be called without creating an object.

   d) A method that throws multiple exceptions.