Java Questions:

1. What is an exception in Java?

a) An error that occurs during compilation

b) An unexpected event that occurs during program execution

c) A warning issued by the Java compiler

d) A reserved keyword in the Java language

1. Which keyword is used to inherit a class in Java?  
   a) inherit  
   b) extends  
   c) implements  
   d) implements interface
2. Which data type is used to store a decimal number with single precision in Java?

a) int

b) float

c) double

d) byte

1. Which keyword is used to throw an exception explicitly in Java?

a) throw

b) catch

c) finally

d) throws

1. Which of the following is not a primitive data type in Java?  
     a) int  
     b) string  
     c) double  
     d) Boolean
2. What is the superclass of all exception classes in Java?

a) RuntimeException

b) Exception

c) Throwable

d) Error

1. What is the purpose of the "finally" block in exception handling?  
      a) It is executed when an exception is thrown  
      b) It is executed regardless of whether an exception is thrown or not  
      c) It is executed only when an exception is not caught  
      d) It is executed before the try block
2. Which of the following is an example of a checked exception in Java?

a) NullPointerException

b) ArrayIndexOutOfBoundsException

c) IllegalArgumentException

d) IOException

1. Which of these classes is not part of Java’s collection framework?

a) Maps

b) Array

c) Stack

d) Queue

1. Can we create an object of an abstract class in Java?  
   a) Yes, we can create an object of an abstract class.  
   b) No, we cannot create an object of an abstract class.  
   c) It depends on the access modifiers used in the abstract class.  
   d) It depends on whether the abstract class is implementing an interface.
2. The accuracy and efficiency of a HashMap can be guaranteed with:
3. override equals method
4. override hashCode method
5. none of these
6. all of these
7. Which of the following is true about overriding?

a) Overriding is determined at runtime

b) Overriding is determined at compile-time

c) Overriding is determined by the JVM

d) Overriding is determined by the garbage collector

1. Which of the following methods is used to add an element to the end of a List in Java Collections Framework?  
   a) addFirst()  
   b) addLast()  
   c) add()  
   d) append()
2. Which of the following methods is used to remove all elements from a collection in Java Collections Framework?

a) removeAll()

b) clear()

c) remove()

d) deleteAll()

1. Java has how many primitive data types?

a) 7  
b) 8  
c) 9  
c) None of these

 byte, short, int, long, float, double, char, boolean.

1. Integer zero (0) is not the default value of which data type?

a) double  
b) byte  
c) short  
d) long

1. Array can hold?

a) Only Primitive values  
b) Only Object type values  
c) Both Primitive & Objects type values  
d) None of these

1. What is the default value of the Boolean data type in Java?

a) true

b) false

c) 0

d) null

1. Which of these is used to access members of class before the object of the class is created?
2. Public
3. Private
4. Static
5. protected
6. Which access modifier allows a variable or method to be accessed within the same package and from subclasses in different packages?

a) public

b) private

c) protected

d) default