

JAVA & SQL MCQ's**TIME: 1 Hour**

1. Which of the following is not a valid identifier for a Java variable?
 - A. my_var
 - B. _myVar
 - C. 3rdVar
 - D. \$var

2. What is multithreaded programming?
 - A. It's a process in which two different processes run simultaneously
 - B. It's a process in which two or more parts of the same process run simultaneously
 - C. It's a process in which many different process are able to access the same information
 - D. It's a process in which a single process can access information from many sources

3. What is the difference between 'while' and 'do-while' loops in Java?
 - A. Syntax only
 - B. The 'do-while' loop executes at least once
 - C. Execution speed
 - D. No difference

4. Which of these is not a valid way to instantiate an array in Java?
 - A. `int[] arr = new int[5];`
 - B. `int arr[] = new int[5];`
 - C. `int arr[] = {1, 2, 3, 4, 5};`
 - D. `int arr[] = int[5];`

5. What will be the result of executing this code snippet?

```
String[] names = {"Java", "Python", "C++"};  
System.out.println(names[1].length());
```

 - A. 4
 - B. 5
 - C. 6
 - D. Error

6. Which keyword is used to prevent a class from being subclassed in Java?
 - A. static
 - B. final
 - C. abstract
 - D. sealed

7. Which method can be used to momentarily pause the execution of the current thread?

- A. sleep()
- B. wait()
- C. pause()
- D. stop()

8. What does the finally block do?

- A. Catches any exception
- B. Executes whether an exception is thrown or not
- C. Executes only when an exception is thrown
- D. Executes only when an exception is not thrown

9. What will be the output of the following java program?

```
class Parent {  
    int x=10;  
}  
class Child extends Parent {  
    int x=20;  
}  
class Test {  
    public static void main(String[] args) {  
        Parent p=new Parent();  
        System.out.print(p.x+" ");  
        Child c=new Child();  
        System.out.print(c.x+" ");  
        Parent p1=new Child();  
        System.out.print(p1.x);  
    }  
}
```

- A. 10 20 20
- B. 10 20 10
- C. 10 10 10
- D. 20 20 20

10. What will be the output of the following program?

```
public class Test2 {  
    public static void main(String[] args) {  
        StringBuffer s1 = new StringBuffer("Complete");  
        s1.setCharAt(1,'i');  
        s1.setCharAt(7,'d');  
        System.out.println(s1);  
    }  
}
```

- A. Complete
- B. Iomplede
- C. Cimpletd
- D. Coipletd

11. In a 'switch-case' statement, what is the role of the 'break' keyword?

- A. To pause the execution
- B. To terminate the case block
- C. To skip to the next case
- D. To repeat the case block

12. How do you access the third element in an array named 'arr'?

- A.arr[2]
- B.arr[3]
- C.arr(2)
- D.arr(3)

13. Which one of the following options provides the output of this program when executed?

```
public class StrEqual {  
    public static void main(String[] args) {  
        String s1 = "hello";  
        String s2 = new String("hello");  
        String s3 = "hello";  
    }  
}
```

```
if (s1 == s2) {  
    System.out.println("s1 and s2 equal");  
} else {  
    System.out.println("s1 and s2 not equal");  
}  
if (s1 == s3) {  
    System.out.println("s1 and s3 equal");  
} else {  
    System.out.println("s1 and s3 not equal");  
}  
}
```

- A. s1 and s2 equal
s1 and s3 equal
- B. s1 and s2 equal
s1 and s3 not equal
- C. s1 and s2 not equal
s1 and s3 equal
- D. s1 and s2 not equal
s1 and s3 not equal

14. How do you access the third element in an array named 'arr'?

- A. Compile-time error
- B. Runtime error: ArrayIndexOutOfBoundsException
- C. No error
- D. Logical error

15. What will be the output of the following Java program?

```
class exception_handling {  
    public static void main(String args[]) {  
        try {  
            System.out.print("Hello" + " " + 1 / 0);  
        } catch (ArithmeticException e) {  
            System.out.print("World");  
        }  
    }  
}
```

- A. Hello
- B. b) World
- C. c) HelloWorld
- D. d) None Of the above

16. Which of the following is not a DDL command?

- A. TRUNCATE
- B. ALTER
- C. CREATE
- D. UPDATE

17. How can you change "Thomas" into "Michel" in the "LastName" column in the Users table?

- A. UPDATE User SET LastName = 'Thomas' INTO LastName = 'Michel'
- B. MODIFY Users SET LastName = 'Michel' WHERE LastName = 'Thomas'
- C. MODIFY Users SET LastName = 'Thomas' INTO LastName = 'Michel'
- D. UPDATE Users SET LastName = 'Michel' WHERE LastName = 'Thomas'

18. A CASE SQL statement is _____?

- A. A way to establish a loop in SQL.
- B. A way to establish an IF-THEN-ELSE in SQL
- C. A way to establish a data definition in SQL
- D. All of the above.

19. Which of the following is the correct order of a SQL statement?

- A. SELECT, GROUP BY, WHERE, HAVING
- B. SELECT, WHERE, GROUP BY, HAVING
- C. SELECT, HAVING, WHERE, GROUP BY
- D. SELECT, WHERE, HAVING, GROUP BY

20. Write the conditions before adding a column named address to a table named employee

HTML, JS and CSS MCQ's

1. Which of the following is the correct way to make a checkbox in HTML?

- A) `<input type="checkbox">`
- B) `<input type="check">`
- C) `<input type="box">`
- D) `<checkbox>`

2. Which attribute is used to specify the destination of a link in an anchor (<a>) tag?

- A) href
- B) src
- C) target
- D) link

3. Write an HTML code example for a login form that includes fields for a username and password, along with a submit button that uses the POST method to submit the data? (2 Marks)

4. Which property is used to control the spacing between lines of text?

- A) letter-spacing
- B) text-indent
- C) line-height
- D) word-spacing

5. What is the purpose of the z-index property in CSS, and how does it work?

- A. It controls the opacity of an element; higher values mean more transparency.
- B. It defines the vertical stacking order of elements that overlap, and higher values are in front of lower ones.
- C. It defines the order in which elements are rendered, with lower values appearing on top.
- D. It controls the visibility of an element based on its position in the viewport.

6. What is the purpose of the isNaN() function in JavaScript?

- A. To check if a value is a number
- B. To check if a value is not a number
- C. To convert a string to a number
- D. To convert a number to a string

7. Which of the following is true about let and var in JavaScript?

- A) Both are block-scoped
- B) Both are function-scoped
- C) let is block-scoped, var is function-scoped
- D) var is block-scoped, let is function-scoped

8. What will console.log(typeof null) output in JavaScript?

- A) "null"
- B) "undefined"
- C) "object"
- D) "number"

9. How do you write an arrow function in JavaScript?

- A) function myFunction() => {}
- B) myFunction = () => {}
- C) myFunction() => {}
- D) arrow myFunction() {}

10. What is the result of the following expression?

`console.log (0.1 + 0.2 === 0.3)`

- A) true
- B) false
- C) undefined
- D) NaN