**TECHNICAL MCQ**

1. **The purpose of the Front-end framework in Full stack development is \_\_\_\_.**
2. To provide the client-side interface
3. To manage database
4. To reduce the server load
5. To send http requests
6. **What is Git?**
7. Framework
8. Version control system
9. Database
10. Package manager
11. **Which JavaScript method is used to write HTML output?**
12. document.write()
13. document.output()
14. console.log()
15. document.writeHTML()
16. **Which JavaScript method is used to write on browser's console?**
17. console.write()
18. console.output()
19. console.log()
20. console.writeHTML()
21. **How many keywords are there in JavaScript to declare variables or constants?**
22. 1
23. 2
24. 3
25. 4
26. **The const keyword is used to define a \_\_\_\_\_\_.**
27. Function scopes variable
28. Block scoped variable
29. Constant
30. Constant with no initial value
31. **Which concept is not supported by object-based programming languages?**
32. Inheritance
33. Dynamic binding
34. Only A
35. Both A and B
36. **Which feature's behavior of OOP depends upon the types of data used in the operation.**
37. Inheritance
38. Polymorphism
39. Abstraction
40. Encapsulation
41. **Which ReactJS function renders HTML to the web page?**
42. render()
43. ReactDOM.render()
44. renders()
45. ReactDOM.renders()
46. **What is a daemon thread in Java?**
    1. A thread that monitors and logs other threads
    2. A thread that runs continuously in the background
    3. A thread that manages memory usage
    4. A thread that is part of the Java virtual machine
47. **Which interface represents a collection of objects in which duplicate values can be stored?**
    1. List
    2. Set
    3. Map
    4. ListMap
48. **What will be the initial capacity of an ArrayList if it is created with the no-argument constructor?**
    1. 0
    2. 5
    3. 10
    4. 16
49. **What is the key difference between HashSet and TreeSet?**
    1. HashSet allows duplicates; TreeSet doesn't
    2. HashSet is ordered; TreeSet is unordered
    3. HashSet is unordered; TreeSet is ordered
    4. HashSet is synchronized; TreeSet is not
50. **Which interface provides methods to traverse through a collection?**
    1. Iterator
    2. Enumerator
    3. Traverser
    4. Mover
51. **Which method is used to start the execution of a thread?**
    1. run()
    2. start()
    3. execute()
    4. go()
52. **What does the join() method do when called on a thread object?**
    1. Terminates the thread
    2. Pauses the thread
    3. Forces the current executing thread to wait until the thread it's called on completes
    4. Checks the status of a thread
53. **Which of these classes is the superclass of all Exception and Error classes?**
    1. Exception
    2. Error
    3. Throwable
    4. Object
54. **Which of these is an unchecked exception?**
    1. ClassNotFoundException
    2. SQLException
    3. IOException
    4. ArithmeticException
55. **What is the default access modifier of a method in an interface in Java?**
    1. private
    2. protected
    3. public
    4. None of the above
56. **An interface with no methods is known as?**
    1. Abstract Interface
    2. Marker Interface
    3. Empty Interface
    4. Functional Interface
57. **Can an interface inherit from a class?**
    1. Yes
    2. No
58. **How many interfaces can a Java class implement?**
    1. None
    2. Only one
    3. Two
    4. As many as needed
59. **What is the root class for all Java classes?**
    1. Object
    2. Class
    3. Superclass
    4. Root
60. **Which method is used to compare two strings for equality?**
    1. ==
    2. equals()
    3. compare()
    4. isEqual()
61. **What is an infinite loop?**
    1. A loop that executes only once
    2. A loop that never terminates naturally
    3. A loop that contains an unreachable code block
    4. A loop that uses the continue statement
62. **Servlet are used to program which component in a web application?**
63. Client
64. Server
65. Tomcat
66. Applet
67. **What does MIME stand for?**
68. Multipurpose internet Messaging Extension
69. Multipurpose internet Mail Extension
70. Multipurpose Internet Media Extension
71. Multipurpose Internet Mass Extension
72. **What is the Main Purpose of the Synchronized Keyword in Java?**
73. Prevents a method from being overridden.
74. Ensures only one instance of a class is created.
75. Facilitates concurrent access to shared resources by multiple threads.
76. Marks a method as abstract.
77. **What is the Purpose of the ' Class.forName()' Method in Java?**
78. Loads a class dynamically at runtime.
79. Retrieves the superclass of a class.
80. Check if an object is an instance of a specific class.
81. Initializes a class.
82. **In Java, What is a 'stream' Primarily Used For?**
83. Managing user input/output.
84. Storing collections of data.
85. Performing operations on sequences of elements.
86. Representing graphics on a display.

**Coding Questions**

1. **Write a java program to display number of words present in String?**

**Input:**

**This is is java java class**

**Output:**

**This=1, is=2, java=2, class=1**

1. **Write a java program to display the string in a given format?**

**Input:**

**ABBCCCDDDD**

**Output:**

**A1B2C3D4**

1. **Write a java program to check given string is balanced or not?**

**Input: [{()}]**

**Output: It is balanced string**

1. **Write a java program to display number of characters present in string?**

**input: java**

**output: j=1,a=2,v=1**

1. **Write a java program to display distinct elements from positive integer array?**

**Input: 1 2 2 3 3 3 4 4 4 4**

**Output: 1 2 3 4**

1. **Write a java program on functional interface and lambda expression?**
2. **Write a spring boot program for postMapping and getMapping with service and controller class.**
3. **Write a jdbc application for create the student table having three columns sno, sname, sadd**
4. **Write a servlet program to insert the record into the student table. Create the form.html file for sno, sanme, sadd and this data into database write web.xml file**
5. **Create a PL/SQL procedure to perform addition of two numbers.**