Question 1

Not yet answered

Marked out of 1.00

19. Which data structure is most suitable for converting an infix expression to postfix?

Select one:

- **a. Stack**
- **b. Linked List**
- **c. Queue**
- **d. Heap**

Question 2

Not yet answered

Marked out of 1.00

18. What is the result of evaluating the postfix expression `6 2 3 + * 4 -`?

Select one:

- **a. 10**
- **b. 14**
- **c. 16**
- **d. 12**

Question 3

Not yet answered

Marked out of 1.00

What happens when this code is executed?

```
class Test {
    static void method() throws Exception {
        throw new Exception("Error");
    }

    public static void main(String[] args) {
        method();
    }
}
```

Select one:

- **a. None of the above**
- **b. Compilation Error**
- **c. No output**
- **d. Unhandled Exception Runtime Error**

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Question 4

Not yet answered

Marked out of 1.00

What is the output?

```
class Test extends Thread {
    public void run() {
        while (true) {
            System.out.println("Running...");
        }
    }

    public static void main(String[] args) {
        Test t = new Test();
        t.setDaemon(true);
        t.start();
    }
}
```

Select one:

- **a. Terminates when the main thread exits**
- **b. Runs once and exits**
- **c. Compilation Error**
- **d. Infinite "Running..." output**

Question 5

Not yet answered

Marked out of 1.00

What is the output of the following function for a singly linked list?

```
function(Node head):
    count = 0
    while head is not NULL:
        count = count + 1
        head = head.next
    return count
```

Select one:

- **a. Reverses the linked list**
- **b. Prints all node values**
- **c. Deletes all nodes**
- **d. Returns the length of the linked list**

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Question 6

Not yet answered

Marked out of 1.00

What will be the output?

```
class Test {
    public static void main(String[] args) {
        try {
            int[] arr = new int[5];
            arr[10] = 100;
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Array out of bounds");
        } finally {
            System.out.println("Finally block executed");
        }
    }
}
```

Select one:

- **a. Both A and B**
- **b. Array out of bounds**
- **c. No output**
- **d. Finally block executed**

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Question 7

Not yet answered

Marked out of 1.00

What happens when this code is executed?

```
class Test {
    public static void main(String[] args) {
        try {
            return;
        } finally {
            System.out.println("Finally executed");
        }
    }
}
```

Select one:

- **a. Finally executed**
- **b. Compilation Error**
- **c. No output**
- **d. Runtime Exception**

Question 8

Not yet answered

Marked out of 1.00

17. Convert the infix expression `A + B * C / D` to postfix.

Select one:

- **a. `+ A / * B C D`**
- **b. `A + B * C / D`**
- **c. `A B C + * D /`**
- **d. `A B C * D / +`**

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Question **9**

Not yet answered

Marked out of 1.00

What will be the output?

```
class Test extends Thread {
    public void run() {
        for (int i = 0; i < 3; i++) {
            System.out.println(Thread.currentThread().getName() + " running");
        }
    }

    public static void main(String[] args) {
        Test t = new Test();
        t.start();
        System.out.println("Main method completed");
    }
}
```

Select one:

- **a. The main method prints first, followed by thread execution**
- **b. Compilation error**
- **c. The thread prints first, followed by the main method**
- **d. Execution order is unpredictable**

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Question **10**

Not yet answered

Marked out of 1.00

What is the output of the following program?

```
class Test extends Thread {
    public void run() {
        synchronized (this) {
            for (int i = 1; i <= 3; i++) {
                System.out.print(i + " ");
            }
        }
    }

    public static void main(String[] args) {
        Test t1 = new Test();
        Test t2 = new Test();
        t1.start();
        t2.start();
    }
}
```

Select one:

- **a. 1 1 2 2 3 3**
- **b. Compilation Error**
- **c. Output is unpredictable**
- **d. 1 2 3 1 2 3**

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Question 11

Not yet answered

Marked out of 1.00

What happens when this program runs?

```
class Test extends Thread {
    public void run() {
        try {
            Thread.sleep(2000);
            System.out.println("Thread executed after sleep");
        } catch (InterruptedException e) {
            System.out.println("Thread interrupted");
        }
    }

    public static void main(String[] args) {
        Test t = new Test();
        t.start();
        t.interrupt();
    }
}
```

Select one:

- **a. "Thread executed after sleep" is printed**
- **b. "Thread interrupted" is printed**
- **c. Runtime Exception**
- **d. Compilation Error**

Question 12

Not yet answered

Marked out of 1.00

14. What is the best time complexity for searching an element in an unsorted singly linked list?

Select one:

- **a. O(1)**
- **b. O(n log n)**
- **c. O(n)**
- **d. O(log n)**

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Question 13

Not yet answered

Marked out of 1.00

15. What is the time complexity of getting the highest-priority element in a priority queue implemented using a max heap?

Select one:

- **a. O(n log n)**
- **b. O(n)**
- **c. O(log n)**
- **d. O(1)**

Question 14

Not yet answered

Marked out of 1.00

What happens when this code runs?

```
class Test {
    public static void main(String[] args) {
        Thread t = new Thread(() -> System.out.println("Thread running"));
        t.start();
    }
}
```

Select one:

- **a. "Thread running" is printed**
- **b. No output**
- **c. Runtime Exception**
- **d. Compilation Error**

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Question 15

Not yet answered

Marked out of 1.00

What happens when this code is executed?

```
class Test {
    public static void main(String[] args) {
        try {
            throw new NullPointerException();
        } catch (ArithmeticException e) {
            System.out.println("Arithmetic Exception");
        } catch (Exception e) {
            System.out.println("General Exception");
        }
    }
}
```

Select one:

- **a. Compilation Error**
- **b. No output**
- **c. General Exception**
- **d. Arithmetic Exception**

Question 16

Not yet answered

Marked out of 1.00

What will be the output of the following program?

```
class Test {
    public static void main(String[] args) {
        try {
            int a = 5 / 0;
        } catch (ArithmeticException e) {
            System.out.println("Exception caught");
        }
    }
}
```

Select one:

- **a. No output**
- **b. Exception caught**
- **c. Compilation Error**
- **d. Runtime Exception**

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Question 17

Not yet answered

Marked out of 1.00

16. What is the best-case time complexity of searching an element in a BST?

Select one:

- **a. O(n)**
- **b. O(log n)**
- **c. O(n log n)**
- **d. O(1)**

Question 18

Not yet answered

Marked out of 1.00

What happens when this code is executed?

```
class Test implements Runnable {
    public void run() {
        System.out.println(Thread.currentThread().getName());
    }

    public static void main(String[] args) {
        Thread t1 = new Thread(new Test(), "Thread-1");
        Thread t2 = new Thread(new Test(), "Thread-2");
        t1.run();
        t2.run();
    }
}
```

Select one:

- **a. Runs as a single-threaded program**
- **b. Compilation Error**
- **c. Runtime Exception**
- **d. Prints "Thread-1" and "Thread-2" in an unpredictable order**

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Question **19**

Not yet answered

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What will be the output of the following program?

```
class Test extends Thread {
    public void run() {
        System.out.println("Thread is running...");
    }

    public static void main(String[] args) {
        Test t = new Test();
        t.start();
        t.start();
    }
}
```

Select one:

- **a. Thread is running... (printed twice)**
- **b. No output**
- **c. Runtime Exception**
- **d. Compilation error**

Question **20**

Not yet answered

Marked out of 1.00

What does this function return in a BST?

```
function(Node root):
    if root is NULL:
        return -1
    if root.right is NULL:
        return root.data
    return function(root.right)
```

Select one:

- **a. Root node value**
- **b. Maximum element in BST**
- **c. Minimum element in BST**
- **d. Number of nodes**

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Finish attempt ... (http://ngitonline.com/mod/quiz/summary.php?attempt=57208)

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