Started on	Monday, 9 June 2025, 4:29 PM
State	Finished
Completed on	Monday, 9 June 2025, 4:45 PM
Time taken	16 mins 49 secs
Marks	36.00/50.00
Grade	<b>72.00</b> out of 100.00

# Question 1

Complete

Mark 1.00 out of 1.00

What will be printed?

```
try {
    int[] arr = new int[5];
    arr[5] = 100;
} catch (ArrayIndexOutOfBoundsException e) {
    System.out.print("Caught ");
} finally {
    System.out.print("Finally");
}
```

- a. Caught Finally
- b. Finally
- c. Runtime Error
- d. Caught

## Question 2

Complete

Mark 1.00 out of 1.00

What happens when an object becomes unreachable in Java?

- a. It's immediately deleted
- b. StackOverFlowError occurs
- c. It becomes eligible for GC
- Od. JVM throws NullPointerException

## Question $\bf 3$

Complete

Mark 1.00 out of 1.00

```
What will happen here?

ConcurrentHashMap<String, Integer> map = new ConcurrentHashMap<>();

map.put("A", 1);

map.compute("A", (k, v) -> v + 1);

System.out.println(map.get("A"));
```

- a. Compilation error
- b. 2
- O c. 1
- od. NullPointerException

```
Question 4
Complete
Mark 0.00 out of 1.00
```

## What is the output?

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

- a. Finally
- b. Try Finally
- oc. Try
- d. Compilation error

### Question 5

Complete

Mark 0.00 out of 1.00

## What is the output of the following code?

```
class Base {
    void show() {
        System.out.println("Base show()");
    }
}
class Derived extends Base {
    void show(int x) {
        System.out.println("Derived show(" + x + ")");
    }
}
public class Main {
    public static void main(String[] args) {
        Base b = new Derived();
        b.show();
    }
}
```

- a. Derived show()
- Ob. Compilation error
- c. Base show()
- Od. Runtime error

Question 6
Complete
Mark 1.00 out of 1.00
Which collection is synchronized?
○ a. HashMap
○ b. ArrayList
○ d. LinkedList
Question 7
Complete
Mark 0.00 out of 1.00
What is true about finally block?
What is true about illially block:
<ul><li>a. It is optional</li></ul>
b. It executes only if no exception occurs
c. It always executes regardless of exceptions
od. It must be used with catch
Question 8
Complete
Mark 1.00 out of 1.00
What is the result?
<pre>List<string> list = Arrays.asList("a", "bb", "ccc", "dd"); String result = list.stream()</string></pre>
<pre>.filter(s -&gt; s.length() == 2)</pre>
<pre>.collect(Collectors.joining("-")); System.out.println(result);</pre>
System.out.pr Intin(result),
○ a. a-bb-ccc-dd
O b. bbd
© c. bb-dd
O d. bb
Question 9
Complete
Mark 0.00 out of 1.00
Which of the following is not true for method overriding?
a. Return type must be same or subtype
b. Access modifier can be more restrictive
c. Method name must be same
d. Method must be inherited

# Question 10 Complete Mark 1.00 out of 1.00

What will be the output?

```
class Animal {
    void sound() { System.out.println("Generic sound"); }
}
class Dog extends Animal {
    void sound() { System.out.println("Bark"); }
}
public class Main {
    public static void main(String[] args) {
        Animal a = new Dog();
        a.sound();
    }
}
```

- a. Generic sound
- b. Compilation error
- oc. Runtime error
- d. Bark

## Question 11

Complete

Mark 1.00 out of 1.00

Which class would you use to represent a date and time with time zone?

- a. OffsetDateTime
- b. LocalDateTime
- oc. Instant
- d. ZonedDateTime

## Question 12

Complete

Mark 0.00 out of 1.00

Which generation in GC typically contains short-lived objects?

- a. Tenured
- ob. Eden Space
- c. PermGen
- d. Old Generation

# Question 13 Complete Mark 0.00 out of 1.00

What will be the output of the following code?

```
class A {
    int x = 10;
    A() {
        print();
    }
    void print() {
        System.out.println("A: " + x);
    }
}
class B extends A {
    int x = 20;
    void print() {
        System.out.println("B: " + x);
    }
}
public class Main {
    public static void main(String[] args) {
        A obj = new B();
    }
}
```

- a. A: 10
- b. B: 0
- oc. B: 20
- d. Runtime Error

# Question 14

Complete

Mark 0.00 out of 1.00

## What is the output?

```
class Test {
    private void display() {
        System.out.println("Private");
    }
}
class Sub extends Test {
    public void display() {
        System.out.println("Public");
    }
}
public class Demo {
    public static void main(String[] args) {
        Test t = new Sub();
        t.display();
    }
}
```

- a. Public
- b. Compilation error
- o. Runtime error
- d. Private

Question 15	
Complete	
Mark 1.00 out of 1.00	

Which of the following is a checked exception?

- a. FileNotFoundException
- b. ArithmeticException
- c. NullPointerException
- d. IllegalArgumentException

## Question 16

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

```
try {
    throw new Exception("Check");
} catch (RuntimeException e) {
    System.out.println("Runtime");
} catch (Exception e) {
    System.out.println("Exception");
}
```

- a. Runtime error
- b. Exception
- c. Runtime
- d. Compilation error

### Question 17

Complete

Mark 1.00 out of 1.00

What will this code print?

```
List<String> list = Arrays.asList("apple", "banana", "cherry");
list.stream()
   .filter(s -> s.length() > 5)
   .map(String::toUpperCase)
   .forEach(System.out::print);
```

- a. banana cherry
- b. APPLEBANANACHERRY
- c. CHERRYBANANA
- d. BANANACHERRY

Question 18	
Complete	
Mark 0.00 out of 1.00	

What does this print?

```
class MyThread extends Thread {
   public void run() {
       System.out.print("Hello ");
   }
   public static void main(String[] args) {
       MyThread t1 = new MyThread();
       t1.start();
      t1.start();
   }
}
```

- a. Hello
- b. Compilation Error
- c. Hello Hello
- Od. Runtime Exception

# Question 19

Complete

Mark 0.00 out of 1.00

Which method causes the current thread to wait until another completes?

- a. yield()
- ob. sleep()
- c. join()
- d. wait()

## Question 20

Complete

Mark 1.00 out of 1.00

What is the role of System.gc()?

- a. Requests GC but does not force it
- b. Immediately triggers GC
- c. Prevents GC
- d. Deletes static data



## What is the output?

```
List<String> list = new ArrayList<>();
list.add("a");
list.add("b");
list.add(1, "c");
System.out.println(list);
```

- a. [c, a, b]
- o b. [a, b, c]
- c. [a, c, b]
- d. Compilation error

# Question 22

Complete

Mark 1.00 out of 1.00

What is the output of the following?

```
Stream.of(1, 2, 3, 4, 5)
    .filter(i -> i % 2 == 0)
    .map(i -> i * i)
    .findFirst()
    .ifPresent(System.out::print);
```

- a. 1
- ob. 2
- O c. 16
- d. 4

## Question 23

Complete

Mark 1.00 out of 1.00

Which operation is terminal in streams?

- a. peek()
- b. map()
- c. filter()
- d. forEach()

9/25, 4:46 PM	Java-Quiz: Attempt review
Question 24	
Complete	
Mark 1.00 out of 1.00	
What is the output?	
<pre>Instant instant = Instant.now();</pre>	
<pre>ZonedDateTime zdt = instant.atZone(ZoneId.of("UTC"));</pre>	
<pre>System.out.println(zdt.getOffset());</pre>	
a. Throws Exception	
O b. null	
c. System timezone offset	
d. +00:00	
Question 25 Complete	
Mark 1.00 out of 1.00	
What will this code output?	
DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy,	/MM / Ad" \ .
LocalDate date = LocalDate.parse("2023/08/15", formatter);	rin/ du );
System.out.println(date);	
O co Constituto Force	
a. Compilation Error	
<ul><li>b. 2023-08-15</li><li>c. 2023-09-45</li></ul>	
<ul><li>c. 2023/08/15</li><li>d. August 15, 2023</li></ul>	
U. August 15, 2025	
Question 26	
Complete	
Mark 1.00 out of 1.00	
What is true about finalize() in Java?	
a. It may or may not be called	
b. It guarantees memory cleanup	
c. It is used for performance	
d. It is always called before GC	
Question 27	
Complete	
Mark 1.00 out of 1.00	

Which one is not allowed in Java?

- a. Abstract class with static methods
- b. Final class with abstract methods
- oc. A class with both abstract and non-abstract methods
- od. Abstract class with constructor

## Question 28

Complete

Mark 1.00 out of 1.00

What will this code output?

- a. Compiler Error
- b. Worker Worker
- c. Thread-0 Thread-0
- d. Main Main

### Question 29

Complete

Mark 1.00 out of 1.00

What happens if exception is thrown in finally block?

- a. Both exceptions are printed
- b. finally block never throws exception
- oc. Original exception is suppressed
- d. Compile-time error

#### Question 30

Complete

Mark 1.00 out of 1.00

Which of the following is true about thread priorities?

- a. Thread priority is a hint to the thread scheduler
- $\bigcirc$  b. Priority affects the order of execution deterministically
- oc. Higher priority means more CPU time guaranteed
- od. Priorities are always respected by JVM

Question 31		
Complete		
Mark 1.00 out of 1.00		

What is true about HashSet?

- a. Maintains insertion order
- O b. Allows duplicate elements
- o. Implements List
- d. Uses hashCode and equals

## Question 32

Complete

Mark 1.00 out of 1.00

What does this code print?

```
import java.util.concurrent.*;
public class Main {
    public static void main(String[] args) {
        ExecutorService service = Executors.newFixedThreadPool(2);
        service.submit(() -> System.out.println("Task 1"));
        service.submit(() -> System.out.println("Task 2"));
        service.shutdown();
    }
}
```

- a. Task 1 Task 2
- b. Compilation error
- c. Task 2 Task 1
- d. Any order of Task 1 and Task 2

# Question 33

Complete

Mark 1.00 out of 1.00

What does the JVM use the heap memory for?

- a. Object allocation
- b. Thread-local storage
- oc. Stack frames
- d. Method calls

Question 34	
Complete	
Mark 1.00 out of 1.00	

## What is the output?

```
try {
    throw new IllegalArgumentException("Illegal");
} catch (IllegalArgumentException e) {
    System.out.println(e.getMessage());
}
```

- a. null
- b. Exception
- o. IllegalArgumentException
- d. Illegal

# Question 35

Complete

Mark 1.00 out of 1.00

## What is the output?

```
try {
    int a = 5 / 0;
} catch (Exception e) {
    System.out.print("Catch ");
} finally {
    System.out.print("Finally");
}
```

- a. Catch Finally
- b. Runtime Error
- c. Catch
- d. Finally

## Question 36

Complete

Mark 1.00 out of 1.00

What is ForkJoinPool best suited for?

- a. UI event handling
- b. Thread communication
- oc. Long I/O-bound tasks
- od. Dividing tasks recursively and processing in parallel

Question 37	
Complete	
Mark 1.00 out of 1.00	

What happens if catch block is missing?

```
try {
    System.out.println(10 / 0);
} finally {
    System.out.println("Done");
}
```

- a. Done
- b. Compilation error
- oc. Program compiles but doesn't run
- od. ArithmeticException is thrown after finally

# Question 38

Complete

Mark 0.00 out of 1.00

What is the output of the following code?

```
LocalDate date = LocalDate.of(2024, Month.FEBRUARY, 29);
System.out.println(date.plusYears(1));
```

- a. 2025-02-29
- o b. 2025-02-28
- c. 2025-03-01
- d. DateTimeException

# Question 39

Complete

Mark 1.00 out of 1.00

What does this print?

```
LocalTime time = LocalTime.of(23, 59, 59);
System.out.println(time.plusSeconds(2));
```

- a. 00:00
- ob. 23:59:61
- oc. 00:00:01
- d. 00:01:00

# Question 40 Complete Mark 0.00 out of 1.00

What is the default parallelism level of ForkJoinPool?

- a. Number of available processors
- ob. Fixed at 4
- o c. Number of processors 1
- Od. 1

# Question 41

Complete

Mark 1.00 out of 1.00

What is the result of the following code?

```
interface I1 {
    default void display() {
        System.out.println("I1");
    }
}
interface I2 {
    default void display() {
        System.out.println("I2");
    }
}
class C implements I1, I2 {
    public void display() {
        I1.super.display();
    }
}
public class Test {
    public static void main(String[] args) {
        new C().display();
    }
}
```

- a. I1
- O b. 12
- c. Compilation error
- d. I1 I2

#### Question 42

Complete

Mark 1.00 out of 1.00

What is the key feature of ReentrantLock over synchronized?

- a. Can't be interrupted
- $\bigcirc$  b. No need to unlock manually
- c. Fairness policy and tryLock() capability
- d. Simpler syntax

```
Question 43
Complete
Mark 0.00 out of 1.00
```

What will this code print?

```
class Super {
    static void method() {
        System.out.println("Super");
    }
}
class Sub extends Super {
    static void method() {
        System.out.println("Sub");
    }
}

public class Demo {
    public static void main(String[] args) {
        Super obj = new Sub();
        obj.method();
    }
}
```

- a. Sub
- b. Compilation error
- c. Super
- Od. Runtime error

### Question 44

Complete

Mark 1.00 out of 1.00

What does this print?

```
Map<String, String> map = new HashMap<>();
map.put("a", "apple");
map.put("b", "banana");
map.put("a", "avocado");
System.out.println(map.get("a"));
```

- a. apple
- ob. banana
- c. null
- d. avocado

## Question 45

Complete

Mark 1.00 out of 1.00

What will this output?

```
Stream<String> s = Stream.of("java", "lambda", "stream");
long count = s.map(String::length).filter(1 -> 1 > 5).count();
System.out.println(count);
```

- a. 3
- O b. 1
- c. 2
- Od. 0

Question 46	
Complete	
Mark 1.00 out of 1.00	

What is true about constructors in Java?

- a. Constructors can be inherited
- b. Constructors must be public
- oc. A constructor can call another constructor in the same class using this()
- Od. Constructor name can be different from class name

# Question 47

Complete

Mark 0.00 out of 1.00

### What is the output?

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

- a. Compilation error
- b. Only one "Thread running"
- oc. Thread running Thread running
- d. Runtime error

## Question 48

Complete

Mark 1.00 out of 1.00

Which Map maintains insertion order?

- a. LinkedHashMap
- ob. TreeMap
- c. Hashtable
- d. HashMap

# Question 49

Complete

Mark 0.00 out of 1.00

## What is the output?

```
class A {
    int i = 10;
    A() {
        System.out.println(i);
        i = 20;
    }
}
public class Test {
    public static void main(String[] args) {
        A a = new A();
        System.out.println(a.i);
    }
}
```

- a. 010
- o b. 10 20
- oc. 10 10
- od. 20 20

## Question 50

Complete

Mark 1.00 out of 1.00

# What will happen?

```
class A {
   final void show() {}
}
class B extends A {
   void show() {}
}
```

- a. Compiles and runs
- b. Compilation error
- c. Shows nothing
- d. Runtime error