Started on	Monday, 9 June 2025, 4:29 PM
State	Finished
Completed on	Monday, 9 June 2025, 4:58 PM
Time taken	28 mins 7 secs
Marks	36.00/50.00
Grade	72.00 out of 100.00

Complete

Mark 1.00 out of 1.00

What is true about constructors in Java?

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

Question 2

Complete

Mark 1.00 out of 1.00

What is the output?

```
Instant instant = Instant.now();
ZonedDateTime zdt = instant.atZone(ZoneId.of("UTC"));
System.out.println(zdt.getOffset());
```

- a. System timezone offset
- b. +00:00
- c. null
- d. Throws Exception

Question $\bf 3$

Complete

Mark 1.00 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. Thread running Thread running
- oc. Only one "Thread running"
- d. Runtime error

Question 4
Complete
Mark 1.00 out of 1.00
Which Map maintains insertion order?
○ a. TreeMap
b. LinkedHashMap
○ c. Hashtable
○ d. HashMap
Question 5
Complete
Mark 0.00 out of 1.00
What is the output of the following code?
LocalDate date = LocalDate.of(2024, Month.FEBRUARY, 29);
<pre>System.out.println(date.plusYears(1));</pre>
○ a. 2025-02-28
○ b. DateTimeException
○ c. 2025-02-29
◎ d. 2025-03-01
Question 6
Complete
Mark 0.00 out of 1.00
What is true about finalize() in Java?
What is that about manzey misard.
a. It guarantees memory cleanup
b. It is always called before GC
c. It is used for performance
O d. It may or may not be called
Question 7
Complete
Mark 1.00 out of 1.00
What is the result?
List <string> list = Arrays.asList("a", "bb", "ccc", "dd");</string>
<pre>String result = list.stream()</pre>
<pre>.filter(s -> s.length() == 2) .collect(Collectors idining(" "));</pre>
<pre>.collect(Collectors.joining("-")); System.out.println(result);</pre>
a. bb-dd
a. bb-ddb. bbd

Od. bb

9/25, 4:58 PM	Java-Quiz: Attempt review
Question 8	
Complete	
Mark 1.00 out of 1.00	
Which of the following is a checked exception?	
a. ArithmeticException	
○ b. IllegalArgumentException	
c. NullPointerException	
d. FileNotFoundException	
Question 9	
Complete	
Mark 1.00 out of 1.00	
<pre>What is the output? try { throw new IllegalArgumentException("Illegal"); } catch (IllegalArgumentException e) { System.out.println(e.getMessage()); }</pre>	
a. Illegal	
O b. null	
c. IllegalArgumentException	
O d. Exception	
Question 10	
Complete	
Mark 1.00 out of 1.00	
What is true about HashSet? a. Implements List	

- b. Uses hashCode and equals
- oc. Allows duplicate elements
- O d. Maintains insertion order

Complete

Mark 1.00 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. 10 10
- o b. 010
- oc. 10 20
- od. 20 20

Question 12

Complete

Mark 1.00 out of 1.00

What does the JVM use the heap memory for?

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

Question 13

Complete

Mark 0.00 out of 1.00

Which of the following is not true for method overriding?

- a. Method must be inherited
- O b. Method name must be same
- o. Return type must be same or subtype

```
Question 14
Complete
Mark 1.00 out of 1.00
```

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 15

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

Complete

Mark 1.00 out of 1.00

What will this code output?

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

Question 17

Complete

Mark 0.00 out of 1.00

Which collection is synchronized?

- a. Vector
- b. ArrayList
- c. HashMap
- d. LinkedList

Question 18

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. 2
- O b. 3
- oc. 1
- O d. 0

Question 19	
Complete	
Mark 0.00 out of 1.00	

Which operation is terminal in streams?

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

Question 20

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 21

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 Hello
- ob. Hello
- c. Compilation Error
- d. Runtime Exception

```
Question 22
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 I2
- b. Compilation error
- © c. 11
- O d. 12

Question 23

Complete

Mark 0.00 out of 1.00

What will happen?

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

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

```
Question 24
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. CHERRYBANANA
- c. APPLEBANANACHERRY
- d. BANANACHERRY

Question 25

Complete

Mark 1.00 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. Super
- b. Runtime error
- c. Sub
- d. Compilation error

Question 26	
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. 16
- 0 b. 1
- © c. 4
- Od. 2

Question 27

Complete

Mark 0.00 out of 1.00

Which of the following is true about thread priorities?

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

Question 28

Complete

Mark 0.00 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
- o. Compilation error
- od. Runtime

Complete

Mark 1.00 out of 1.00

What happens when an object becomes unreachable in Java?

- a. StackOverFlowError occurs
- O b. It's immediately deleted
- o. JVM throws NullPointerException
- od. It becomes eligible for GC

Question 30

Complete

Mark 1.00 out of 1.00

What is the key feature of ReentrantLock over synchronized?

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

Question 31

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. Compilation error
- b. Private
- c. Runtime error
- d. Public

Question 32	
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. Runtime Error
- ob. Caught
- c. Finally
- d. Caught Finally

Question 33

Complete

Mark 0.00 out of 1.00

What happens if exception is thrown in finally block?

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

Question 34

Complete

Mark 0.00 out of 1.00

Which generation in GC typically contains short-lived objects?

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

Question 35

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. ZonedDateTime
- oc. Instant
- d. LocalDateTime

Question 36	
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. Compilation error
- b. ArithmeticException is thrown after finally
- oc. Done
- Od. Program compiles but doesn't run

Question 37

Complete

Mark 1.00 out of 1.00

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

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

Question 38

Complete

Mark 1.00 out of 1.00

What is true about finally block?

- a. It always executes regardless of exceptions
- b. It executes only if no exception occurs
- c. It is optional
- d. It must be used with catch

Question 39	
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. Catch
- oc. Runtime Error
- d. Finally

Question 40

Complete

Mark 1.00 out of 1.00

Which one is not allowed in Java?

- $\ \bigcirc$ a. A class with both abstract and non-abstract methods
- b. Abstract class with constructor
- oc. Final class with abstract methods
- d. Abstract class with static methods

Question 41

Complete

Mark 1.00 out of 1.00

What is ForkJoinPool best suited for?

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

Question 42 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. Compilation error
- b. Any order of Task 1 and Task 2
- c. Task 1 Task 2
- Od. Task 2 Task 1

Question 43

Complete

Mark 1.00 out of 1.00

What will this code output?

```
DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy/MM/dd");
LocalDate date = LocalDate.parse("2023/08/15", formatter);
System.out.println(date);
```

- a. 2023/08/15
- b. 2023-08-15
- c. Compilation Error
- d. August 15, 2023

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. avocado
- Ob. apple
- oc. banana
- d. null

Question 45 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. 00:00:01
- ob. 00:01:00
- c. 00:00
- d. 23:59:61

Question 46

Complete

Mark 1.00 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. Try
- b. Compilation error
- c. Try Finally
- d. Finally

Question 47 Complete Mark 1.00 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. Base show()
- b. Runtime error
- oc. Compilation error
- d. Derived show()

Question 48

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. NullPointerException
- b. Compilation error
- c. 2
- Od. 1

Question 49

Complete

Mark 1.00 out of 1.00

What is the role of System.gc()?

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

Question 50 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. Bark
- b. Generic sound
- o. Compilation error
- od. Runtime error