Started on	Monday, 9 June 2025, 4:27 PM
State	Finished
Completed on	Monday, 9 June 2025, 5:00 PM
Time taken	32 mins 41 secs
	37.00/50.00
Grade	74.00 out of 100.00
Question 1	
Complete	
Mark 0.00 out of 1.00	
What happens when	an object becomes unreachable in Java?
a. JVM throws	NullPointerException
b. StackOverFlo	pwError occurs
c. It's immedia	tely deleted
○ d. It becomes e	
Question 2	
Complete	
Mark 0.00 out of 1.00	
What is true about fir	nalize() in Java?
-	s memory cleanup
ob. It is always c	
c. It is used for	performance
d. It may or ma	y not be called

Question 3 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. 20 20
- O b. 0 10
- o c. 10 20
- Od. 1010

${\tt Question}~4$

Complete

Mark 1.00 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. Runtime error
- Ob. Private
- Oc. Public
- d. Compilation error

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Question 5
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
b. Priority affects the order of execution deterministically
c. Higher priority means more CPU time guaranteed
d. Priorities are always respected by JVM
_
Question 6
Complete Marks 100 pages 61 00
Mark 1.00 out of 1.00
What is true about constructors in Java?
a. A constructor can call another constructor in the same class using this()
○ b. Constructors must be public
c. Constructors can be inherited
d. Constructor name can be different from class name
Question 7
Complete
Mark 0.00 out of 1.00
Which class would you use to represent a date and time with time zone?
Which class would you use to represent a date and time war time zone.
a. OffsetDateTime
b. LocalDateTime
○ c. ZonedDateTime
○ d. Instant

```
Question 8
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. APPLEBANANACHERRY
  b. BANANACHERRY
  c. banana cherry
  d. CHERRYBANANA
Question 9
Complete
Mark 1.00 out of 1.00
 What is the output?
     throw new IllegalArgumentException("Illegal");
 } catch (IllegalArgumentException e) {
     System.out.println(e.getMessage());
  a. Illegal
  Ob. IllegalArgumentException
  oc. null
  d. Exception
```

Question 10 Complete Mark 1.00 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. B: 20
- c. Runtime Error
- Od. A: 10

Question 11

Complete

Mark 1.00 out of 1.00

What is the result?

```
List<String> list = Arrays.asList("a", "bb", "ccc", "dd");
String result = list.stream()
    .filter(s -> s.length() == 2)
    .collect(Collectors.joining("-"));
System.out.println(result);
```

- a. bbd
- b. bb-dd
- c. a-bb-ccc-dd
- d. bb

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Question	12
Complete	

Mark 0.00 out of 1.00

Which operation is terminal in streams?

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

Question 13

Complete

Mark 1.00 out of 1.00

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

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

Question 14

Complete

Mark 0.00 out of 1.00

What is the key feature of ReentrantLock over synchronized?

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

Question 15
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();</string>
System.out.println(count);
a. 2
○ b. 3
○ c. 0
○ d. 1
Question 16
Complete
Mark 1.00 out of 1.00
Which Map maintains insertion order? a. Hashtable
○ b. TreeMap
○ d. HashMap
Question 17
Complete
Mark 0.00 out of 1.00
What is the output?
<pre>Instant instant = Instant.now();</pre>
<pre>ZonedDateTime zdt = instant.atZone(ZoneId.of("UTC"));</pre>
System.out.println(zdt.getOffset());
a. Throws Exception
b. +00:00
○ c. null
d. System timezone offset
a. System unicedite onset

```
Question 18
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. 2
  O b. 1
  c. NullPointerException
  d. Compilation error
Question 19
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. null
  Ob. banana
  oc. avocado
  d. apple
Question 20
Complete
Mark 1.00 out of 1.00
 What will happen?
 class A {
     final void show() {}
 class B extends A {
     void show() {}
  a. Shows nothing
  b. Compiles and runs
  o. Runtime error
  d. Compilation error
```

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Question 21

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

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. 16
- O b. 1
- O c. 2
- d. 4

Question 23	
Complete	
Mark 1.00 out of 1.00	

What is the role of System.gc()?

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

Question 24

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. Compilation error
- Ob. Finally
- oc. Try Finally
- Od. Try

Question 25 Complete Mark 1.00 out of 1.00

What will this code output?

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

Question 26

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

Question 27	
Complete	
Mark 1.00 out of 1.00	
What is true about HashSet?	
a. Allows duplicate elements	
○ b. Implements List	
c. Maintains insertion order	
d. Uses hashCode and equals	
Question 28	
Complete	
Mark 1.00 out of 1.00	
What is the output?	
List <string> list = new ArrayList<>();</string>	
list.add("a");	
<pre>list.add("b"); list.add(1, "c");</pre>	
System.out.println(list);	
○ a. [a, b, c]	
b. [a, c, b]	
○ c. [c, a, b]	
○ d. Compilation error	
Question 29	
Complete	
Mark 1.00 out of 1.00	
What will be printed?	
<pre>try { int[] arr = new int[5];</pre>	
arr[5] = 100;	
<pre>} catch (ArrayIndexOutOfBoundsException e) { System.out.print("Caught ");</pre>	
} finally {	
<pre>System.out.print("Finally");</pre>	
<u>}</u>	
○ a. Caught	
○ b. Runtime Error	
○ c. Finally	
Caught Finally	

Question 30	
Complete	
Mark 1.00 out of 1.00	
What will this code output?	
<pre>DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy/MM/dd"); LocalDate date = LocalDate.parse("2023/08/15", formatter); System.out.println(date);</pre>	
a. Compilation Error	
○ b. August 15, 2023	
○ c. 2023/08/15	
Question 31	
Complete	
Mark 0.00 out of 1.00	
What does this code print?	
<pre>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(); } }</pre>	
a. Task 1 Task 2	
b. Task 2 Task 1	
c. Compilation error	
d. Any order of Task 1 and Task 2	
Question 32	
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. DateTimeException	
b. 2025-02-28	
© c. 2025-02-29	
○ d. 2025-03-01	

iz: Attempt review	http://10.11.52.100/mod/quiz/review.php?attempt=21624&d		
Question 33			
Complete			
Mark 0.00 out of 1.00			
What happens if exception is thrown in finally block?			
a. finally block never throws exception			
 b. Original exception is suppressed 			
c. Compile-time error			
d. Both exceptions are printed			
Question 34			
Complete			
Mark 1.00 out of 1.00			
What does the JVM use the heap memory for?			
a. Thread-local storage			
b. Object allocation			
○ c. Method calls			

d. Stack frames

Question 35

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
- Ob. Runtime error
- oc. Generic sound
- Od. Compilation error

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· ·		
ava-Ouiz:	Attemnt	review

Question	3	b

Complete

Mark 1.00 out of 1.00

Which collection is synchronized?

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

Question 37

Complete

Mark 0.00 out of 1.00

Which generation in GC typically contains short-lived objects?

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

Question 38

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
- Ob. Compilation error
- c. Exception
- Od. Runtime

Java-Quiz: Attempt review

Question 39 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. Thread running Thread running
- Ob. Only one "Thread running"
- C. Compilation error
- d. Runtime error

Question 40

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

Question 41 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
- oc. Hello Hello
- d. Runtime Exception

Question 42

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

Question 43

Complete

Mark 1.00 out of 1.00

What is true about finally block?

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

Question 44
Complete
Mark 0.00 out of 1.00
What happens if catch block is missing?
try { System.out.println(10 / 0);
} finally {
System.out.println("Done");
Jr
a. Program compiles but doesn't run
○ b. Done
c. Compilation error
d. ArithmeticException is thrown after finally
Question 45
Complete
Mark 1.00 out of 1.00
Which of the following is a checked exception?
a. IllegalArgumentException
○ b. ArithmeticException
c. FileNotFoundException
d. NullPointerException
Question 46
Complete Mark 1.00 out of 1.00
Wark 1.00 Out of 1.00
Which one is not allowed in Java?
a. Abstract class with static methods
○ b. Abstract class with constructor
o c. Final class with abstract methods
d. A class with both abstract and non-abstract methods

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. Compilation error
- c. Derived show()
- d. Runtime error

Question 48

Complete

Mark 0.00 out of 1.00

What is ForkJoinPool best suited for?

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

Question 49

Complete

Mark 1.00 out of 1.00

Which of the following is not true for method overriding?

- a. Method must be inherited
- Ob. Method name must be same
- o. Access modifier can be more restrictive
- Od. Return type must be same or subtype

Java-Quiz: Attempt review

What is the default parallelism level of ForkJoinPool?

- a. Number of available processors
- Ob. Fixed at 4
- c. Number of processors 1
- O d. 1