	Monday, 9 June 2025, 4:27 PM
State	Finished
Completed on	Monday, 9 June 2025, 5:03 PM
Time taken	35 mins 22 secs
	40.00/50.00
Grade	80.00 out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
What is the output of	the following code?
try {	
throw new Excep	
} catch (RuntimeExc	
System.out.prin } catch (Exception	
	tln("Exception");
}	
D	
a. Runtime erro	or and the second secon
Ob. Runtime	
c. Exception	
d. Compilation	error
Question 2	
Complete	
Mark 1.00 out of 1.00	

What does the JVM use the heap memory for?

- a. Stack frames
- b. Object allocation
- o. Method calls
- Od. Thread-local storage

Question 3 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. Runtime error
- Ob. Generic sound
- c. Compilation error
- d. Bark

Question 4

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. 00:01:00
- b. 00:00:01
- o. 00:00
- d. 23:59:61

Question 5

Complete

Mark 0.00 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. August 15, 2023
- o b. 2023-08-15
- oc. 2023/08/15
- Od. Compilation Error

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Question 6	
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>	
System.out.println(zdt.getOffset());	
a. System timezone offset	
b. Throws Exception	
oc. null	
Question 7	
Complete	
Mark 1.00 out of 1.00	
What is the default parallelism level of ForkJoinPool? a. 1	
b. Fixed at 4	
c. Number of available processors	
d. Number of processors - 1	
Question 8	
Complete	
Mark 1.00 out of 1.00	
Which of the following is a checked exception?	
a. FileNotFoundException	
○ b. IllegalArgumentException	
c. NullPointerException	
○ d. ArithmeticException	

Java-Quiz: Attempt review

Question 9
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. Sub
- Ob. Compilation error
- c. Runtime error
- d. Super

Question 10

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. Illegal
- Ob. IllegalArgumentException
- Oc. null
- d. Exception

Question 11

Complete

Mark 1.00 out of 1.00

Which of the following is true about thread priorities?

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

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Question 12
Complete
Mark 1.00 out of 1.00
Which method causes the current thread to wait until another completes?
a. wait()
b. yield()
<pre> c. join()</pre>
○ d. sleep()
Question 13
Complete
Mark 1.00 out of 1.00
Which collection is synchronized?
○ a. LinkedList
○ b. ArrayList
c. Vector
○ d. HashMap
Question 14
Complete
Mark 1.00 out of 1.00
What is the output?
try {
int a = 5 / 0;
} catch (Exception e) {
<pre>System.out.print("Catch "); } finally {</pre>
System.out.print("Finally");
}
○ a. Finally
○ b. Catch
c. Runtime Error
d. Catch Finally

Java-Quiz: Attempt review

Question 15
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. Runtime error
- Ob. Compilation error
- Oc. Only one "Thread running"
- od. Thread running Thread running

Question 16

Complete

Mark 1.00 out of 1.00

Which one is not allowed in Java?

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

Question 17

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. 20 20
- oc. 010
- d. 10 20

O d. 1

Question 18 Complete Mark 1.00 out of 1.00 What is true about finally block?	
Mark 1.00 out of 1.00	
What is true about finally block?	
what is true about illiany block:	
○ a. It must be used with catch	
b. It always executes regardless of exceptions	
c. It is optional	
○ d. It executes only if no exception occurs	
Question 19	
Complete	
Mark 0.00 out of 1.00	
What is the output of the following code?	
class Base {	
<pre>void show() {</pre>	
<pre>System.out.println("Base show()"); }</pre>	
}	
class Derived extends Base {	
<pre>void show(int x) { System.out.println("Derived show(" + x + ")");</pre>	
}	
}	
<pre>public class Main { public static void main(String[] args) {</pre>	
Base b = new Derived();	
b.show();	
}	
<u>I</u>	
a. Runtime error	
○ b. Compilation error	
c. Base show()	
d. Derived show()	
Question 20	
Complete	
Mark 1.00 out of 1.00	
What will this output?	
<pre>Stream<string> s = Stream.of("java", "lambda", "stream");</string></pre>	
<pre>long count = s.map(String::length).filter(1 -> 1 > 5).count(); System.out.println(count);</pre>	
System.out.pr intin(count);	
○ a. 3	
○ b. 0	
© c. 2	

Question 21 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: 20
- Oc. Runtime Error
- Od. B: 0

Question 22

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. Shows nothing
- c. Compilation error
- Od. Runtime error

Question 23
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. 2025-02-28
○ b. 2025-03-01
○ c. DateTimeException
● d. 2025-02-29
Question 24
Complete
Mark 1.00 out of 1.00
What is true about HashSet?
What is true about mashiset:
a. Uses hashCode and equals
b. Allows duplicate elements
c. Implements List
d. Maintains insertion order
u. Maintains insertion order
Question 25
Complete
Mark 1.00 out of 1.00
What is the output?
public class Test {
<pre>public static void main(String[] args) { try {</pre>
System.out.println("Try");
return;
<pre>} finally { System.out.println("Finally");</pre>
}
}
Įš
a. Finally
b. Compilation error
○ c. Try
d. Try Finally

Java-Quiz: Attempt review

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

Question 27

Complete

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()
- Ob. Constructor name can be different from class name
- oc. Constructors can be inherited
- Od. Constructors must be public

Question 28

Complete

Mark 1.00 out of 1.00

What happens when an object becomes unreachable in Java?

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

Question 29	
Complete	
Mark 1.00 out of 1.00	
What is the output?	
List <string> list = new ArrayList<>();</string>	
<pre>list.add("a");</pre>	
list.add("b");	
list.add(1, "c");	
System.out.println(list);	
O a Constitution const	
a. Compilation error	
○ b. [c, a, b]	
c. [a, c, b]	
○ d. [a, b, c]	
Question 30	
Complete	
Mark 1.00 out of 1.00	
What is true about finalize() in Java?	
a It is used for performance	

- a. It is used for performance
- \bigcirc b. It is always called before GC
- O c. It guarantees memory cleanup
- d. It may or may not be called

Question 31

Complete

Mark 1.00 out of 1.00

What will this code output?

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

: Attempt review	http://10.11.52.100/mod/quiz/review.php?attempt=
Question 32	
Complete	
Mark 1.00 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 33	
Complete	
Mark 1.00 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 is the key feature of ReentrantLock over synchronized?	
a. Can't be interrupted	
○ b. Simpler syntax	
c. Fairness policy and tryLock() capability	
Od. No need to unlock manually	
Question 35	
Complete	
Mark 1.00 out of 1.00	

Ob. LocalDateTime c. ZonedDateTime

d. Instant

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");
}
a. Program compiles but doesn't run
b. Done
C. Compilation error
d. ArithmeticException is thrown after finally
Question 37
Complete
Mark 0.00 out of 1.00
Which generation in GC typically contains short-lived objects?
a. PermGen
b. Tenured
c. Old Generation
○ d. Eden Space
Question 38
Complete
Complete Mark 1.00 out of 1.00
Complete
Complete Mark 1.00 out of 1.00 What will happen here? ConcurrentHashMap <string, integer=""> map = new ConcurrentHashMap<>(); map.put("A", 1);</string,>
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);</string,>
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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</string,>
<pre>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"));</string,></pre>
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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 b. 1 c. Compilation error d. NullPointerException</string,>
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 b. 1 c. Compilation error</string,>
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 b. 1 c. Compilation error d. NullPointerException</string,>
Complete Mark 1.00 out of 1.00 What will happen here? ConcurrentHashMapcString, Integer> map = new ConcurrentHashMapc>(); map.put("A", 1); map.compute("A", (k, v) -> v + 1); System.out.println(map.get("A")); a. 2 b. 1 c. Compilation error d. NullPointerException Question 39 Complete
Complete Mark 1.00 out of 1.00 What will happen here? ConcurrentHashMapcString, Integer> map = new ConcurrentHashMapc>(); map.put("A", 1); map.compute("A", (k, v) -> v + 1); System.out.println(map.get("A")); a. 2 b. 1 c. Compilation error d. NullPointerException Question 39 Complete
Complete Mark 1.00 out of 1.00 Mhat 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 b. 1 c. Compilation error d. NullPointerException Question 39 Complete Mark 1.00 out of 1.00 Which Map maintains insertion order?</string,>
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, y) -> y + 1); System.out.println(map.get("A")); a. 2 b. 1 c. Compilation error d. NullPointerException Question 39 Complete Mark 1.00 out of 1.00 Which Map maintains insertion order? a. LinkedHashMap</string,>
Complete Mark 1.00 out of 1.00 What will happen here? ConcurrentHashMap <string, integer=""> map = new ConcurrentHashMap<>(); map.put("A", 1); map.complete("", (k, v) -> v + 1); System.out.println(map.get("A")); a. 2 b. 1 c. Compilation error d. NullPointerException Question 39 Complete Mark 1.00 out of 1.00 Which Map maintains insertion order? a. LinkedHashMap b. Hashtable</string,>
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, y) -> y + 1); System.out.println(map.get("A")); a. 2 b. 1 c. Compilation error d. NullPointerException Question 39 Complete Mark 1.00 out of 1.00 Which Map maintains insertion order? a. LinkedHashMap</string,>

Question 40
Complete
Mark 1.00 out of 1.00
What is the result?
<pre>List<string> list = Arrays.asList("a", "bb", "ccc", "dd");</string></pre>
<pre>String result = list.stream()</pre>
<pre>.filter(s -> s.length() == 2) .collect(Collectors.joining("-"));</pre>
System.out.println(result);
a. a-bb-ccc-dd
b. bb-dd
○ c. bbd
○ d. bb
Question 41
Complete
Mark 1.00 out of 1.00
What is ForkJoinPool best suited for?
a. UI event handling
b. Dividing tasks recursively and processing in parallel
○ c. Long I/O-bound tasks
○ d. Thread communication
Question 42
Complete
Mark 1.00 out of 1.00
Which operation is terminal in streams?
a. forEach()
Ob. filter()
C. peek()
Od. map()

Question 43 Complete Mark 0.00 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
- Ob. Any order of Task 1 and Task 2
- c. Task 2 Task 1
- od. Task 1 Task 2

Question 44

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
- b. Caught Finally
- C. Finally
- d. Runtime Error

Question 45

Complete

Mark 0.00 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. BANANACHERRY
- d. APPLEBANANACHERRY

Question 46 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
- o. Runtime Exception
- Od. Compilation Error

Question 47

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. Runtime error
- Ob. Private
- o. Compilation error
- d. Public

Question 48 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 II, I2 {
    public void display() {
        I1.super.display();
    }
}
public class Test {
    public static void main(String[] args) {
        new C().display();
    }
}
```

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

Question 49

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
- b. avocado
- O c. null
- Od. banana

Question 50

Complete

Mark 1.00 out of 1.00

What is the role of System.gc()?

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