Started on	Thursday, 5 June 2025, 11:30 AM
State	Finished
Completed on	Thursday, 5 June 2025, 12:10 PM
Time taken	39 mins 48 secs
Marks	38.00/50.00
Grade	<b>76.00</b> out of 100.00

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();
    }
}
```

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

```
Question 2
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. I1 I2
 oc. 12
Od. Compilation error
```

```
Question 3
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();
   }
oa. Runtime error
 b. Super
 oc. Compilation error
 d. Sub
```

Question	Λ
Question	4

Complete

Mark 0.00 out of 1.00

Which one is not allowed in Java?

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

#### Question 5

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
- ob. Runtime error
- oc. Private
- od. Public

```
Question 6
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. Runtime error
 b. Compilation error
 c. Derived show()
 d. Base show()
```

```
Question 7
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 = new A();
       System.out.println(a.i);
   }
 a. 10 20
 o b. 20 20
 o. 0 10
 od. 10 10
```

	•
Question	X

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

#### Question 9

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();
    }
}
```

- oa. Compilation error
- b. Bark
- oc. Runtime error
- od. Generic sound

#### Question 10

Complete

Mark 0.00 out of 1.00

Which of the following is not true for method overriding?

- a. Method name must be same
- $\bigcirc$  b. Return type must be same or subtype
- oc. Access modifier can be more restrictive
- Od. Method must be inherited

Question 11	
Complete	
Mark 1.00 out of 1.00	

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

a. Compilation error

b. Compiles and runs

c. Runtime error

d. Shows nothing
```

```
Question 12
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. Exception
    b. IllegalArgumentException
    c. null
    d. Illegal
```

```
Question 13
Complete
Mark 1.00 out of 1.00
```

```
What is true about finally block?
a. It must be used with catch
b. It executes only if no exception occurs
c. It always executes regardless of exceptions
d. It is optional
```

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
- ob. Runtime Error
- oc. Caught Finally
- d. Finally

#### Question 15

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");
}
```

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

#### Question 16

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. Exception
- b. Runtime
- oc. Compilation error
- Od. Runtime error

Question 17	
Complete	
Mark 1.00 out of 1.00	

Which of the following is a checked exception?

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

# Question 18 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. Finally
d. Catch
```

# Question 19 Complete Mark 1.00 out of 1.00

What happens if exception is thrown in finally block?

a. finally block never throws exception

b. Compile-time error

c. Original exception is suppressed

d. Both exceptions are printed

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
- b. Try Finally
- oc. Try
- d. Finally

#### Question 21

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

#### Question 22

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

Question 23
Complete
Mark 0.00 out of 1.00
Which class would you use to represent a date and time with time zone?
<ul><li>a. ZonedDateTime</li><li>b. Instant</li></ul>
c. OffsetDateTime
d. LocalDateTime
G. Eddibute fille
Question 24
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);
O b. 2023-08-15
o c. August 15, 2023
Od. Compilation Error
Question 25
Question 25 Complete
Question 25 Complete Mark 0.00 out of 1.00
Complete
Complete  Mark 0.00 out of 1.00
Complete  Mark 0.00 out of 1.00  What is the output?
Complete  Mark 0.00 out of 1.00  What is the output?  Instant instant = Instant.now(); ZonedDateTime zdt = instant.atZone(ZoneId.of("UTC"));
Complete  Mark 0.00 out of 1.00  What is the output?  Instant instant = Instant.now();
<pre>Complete Mark 0.00 out of 1.00  What is the output?  Instant instant = Instant.now(); ZonedDateTime zdt = instant.atZone(ZoneId.of("UTC")); System.out.println(zdt.getOffset());</pre>
Complete  Mark 0.00 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. null
Complete  Mark 0.00 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. null  b. +00:00
Complete  Mark 0.00 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. null  b. +00:00  c. Throws Exception
Complete  Mark 0.00 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. null  b. +00:00
Complete  Mark 0.00 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. null  b. +00:00  c. Throws Exception
Complete  Mark 0.00 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. null b. +00:00 c. Throws Exception d. System timezone offset
Complete  Mark 0.00 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. null b. +00:00 c. Throws Exception d. System timezone offset  Question 26  Complete
Complete  Mark 0.00 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. null b. +00:00 c. Throws Exception d. System timezone offset
Complete  Mark 0.00 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. null b. +00:00 c. Throws Exception d. System timezone offset  Question 26  Complete
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Complete  Mark 0.00 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. null b. +00:00 c. Throws Exception d. System timezone offset  Question 26  Complete  Mark 1.00 out of 1.00  What does the JVM use the heap memory for?
Complete  Mark 0.00 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. null b. +00:00 c. Throws Exception d. System timezone offset  Question 26  Complete  Mark 1.00 out of 1.00  What does the JVM use the heap memory for?  a. Method calls
Complete  Mark 0.00 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. null b. +00:00 c. Throws Exception d. System timezone offset  Question 26  Complete  Mark 1.00 out of 1.00  What does the JVM use the heap memory for?  a. Method calls b. Object allocation
Complete  Mark 0.00 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. null b. +00:00 c. Throws Exception d. System timezone offset  Question 26  Complete  Mark 1.00 out of 1.00  What does the JVM use the heap memory for?  a. Method calls

0/20, 12.19 FWI	Java-Quiz. Attempt review
Question 27 Complete	
Mark 1.00 out of 1.00	
<ul> <li>What happens when an object becomes unreachable in Java?</li> <li>a. It becomes eligible for GC</li> <li>b. It's immediately deleted</li> <li>c. JVM throws NullPointerException</li> <li>d. StackOverFlowError occurs</li> </ul>	
Question 28 Complete Mark 0.00 out of 1.00	
Which generation in GC typically contains short-lived objects?	
<ul><li>a. Eden Space</li><li>b. PermGen</li><li>c. Tenured</li><li>d. Old Generation</li></ul>	
Question 29  Complete  Mark 0.00 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 30	
Complete	
Mark 1.00 out of 1.00	
What is the role of System.gc()?	
<ul> <li>a. Prevents GC</li> <li>b. Immediately triggers GC</li> <li>c. Deletes static data</li> <li>d. Requests GC but does not force it</li> </ul>	

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();
    }
}
```

- $\bigcirc$  a. Only one "Thread running"
- Ob. Runtime error
- oc. Compilation error
- d. Thread running Thread running

#### Question 32

Complete

Mark 1.00 out of 1.00

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

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

#### Question 33

Complete

Mark 1.00 out of 1.00

#### What will this code output?

- oa. Main Main
- b. Worker Worker
- c. Compiler Error
- od. Thread-0 Thread-0

Complete

Mark 1.00 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 35

Complete

Mark 0.00 out of 1.00

Which of the following is true about thread priorities?

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

#### Question 36

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. Any order of Task 1 and Task 2
- Ob. Compilation error
- o. Task 1 Task 2
- od. Task 2 Task 1

Java-Quiz. Attempt review	
Question 37	
Complete	
Mark 1.00 out of 1.00	
What is the key feature of ReentrantLock over synchronized?	
a. Fairness policy and tryLock() capability	
○ b. Can't be interrupted	
c. Simpler syntax	
Od. No need to unlock manually	
Question 38	
Complete	
Mark 1.00 out of 1.00	
What will happen here?	
<pre>ConcurrentHashMap<string, integer=""> map = new ConcurrentHashMap&lt;&gt;();</string,></pre>	
map.put("A", 1);	
<pre>map.compute("A", (k, v) -&gt; v + 1); System.out.println(map.get("A"));</pre>	
System.out.printin(map.get( A ));	
○ b. 1	
○ c. NullPointerException	
od. Compilation error	
Question 39	
Complete	
Mark 1.00 out of 1.00	
Mark 1.00 out of 1.00	
What is ForkJoinPool best suited for?	
a. Dividing tasks recursively and processing in parallel	
b. Thread communication	
○ c. UI event handling	
○ d. Long I/O-bound tasks	
Question 40	
Complete	
Mark 1.00 out of 1.00	
What is the default parallelism level of ForkJoinPool?	
a. Number of processors - 1	
○ b. 1	
<ul><li>b. 1</li><li>c. Number of available processors</li></ul>	

Question 41	
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. BANANACHERRY
d. CHERRYBANANA
```

```
Question 42
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. 4b. 2

oc. 16

od. 1

#### Question 43

Complete

Mark 1.00 out of 1.00

Which operation is terminal in streams?

a. peek()

b. map()

oc. forEach()

d. filter()

### Question 44 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. bb

b. bb-dd

c. a-bb-ccc-dd

d. bbd
```

## 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
b. 0
c. 2
d. 1
```

```
Question 46
Complete
Mark 1.00 out of 1.00
```

Question 47
Complete
Mark 1.00 out of 1.00
Which collection is synchronized?
■ a. Vector
b. ArrayList
c. HashMap
Od. LinkedList
40
Question 48 Complete
Mark 1.00 out of 1.00
What does this print?
<pre>Map<string, string=""> map = new HashMap&lt;&gt;(); map.put("a", "apple");</string,></pre>
map.put("b", "banana");
<pre>map.put("a", "avocado"); System.out.println(map.get("a"));</pre>
○ a. apple
O b. banana
◎ c. avocado
Od. null
Question 49
Complete
Mark 1.00 out of 1.00
What is true about HashSet?
a. Uses hashCode and equals
b. Maintains insertion order      lead to sent thick
<ul><li>c. Implements List</li><li>d. Allows duplicate elements</li></ul>
u. Allows duplicate elements
Question 50
Complete
Mark 1.00 out of 1.00
Which Map maintains insertion order?
○ a. Hashtable
b. TreeMap
C. HashMap
<ul><li>d. LinkedHashMap</li></ul>