Started on	Thursday, 5 June 2025, 11:32 AM
State	Finished
Completed on	Thursday, 5 June 2025, 12:08 PM
Time taken	36 mins 27 secs
Marks	39.00/50.00
Grade	<b>78.00</b> out of 100.00

```
Question 1
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. A: 10
- b. Runtime Error
- c. B: 0
- 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
- ob. 12
- c. Compilation error
- od. I1 I2

#### Question 3

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. Compilation error
- b. Sub
- o. Runtime error

d. Super

static methods are called using the reference type

Complete

Mark 1.00 out of 1.00

Which one is not allowed in Java?

- a. Final class with abstract methods
- b. Abstract class with constructor
- o. A class with both abstract and non-abstract methods
- d. Abstract class with static 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. Runtime error



b. Private

c. Compilation error

d. Public

private methods cannot be inherited

```
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. Base show()
- c. Derived show()
- d. Compilation error

## 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 a = new A();
        System.out.println(a.i);
    }
}
```

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

Question 8			
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
- o. Constructor name can be different from class name
- od. A constructor can call another constructor in the same class using this()

## 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();
    }
}
```

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

## Question 10

Complete

Mark 1.00 out of 1.00

Which of the following is not true for method overriding?

- a. Access modifier can be more restrictive
- b. Method must be inherited
- $\, igcup$  c. Return type must be same or subtype
- od. Method name must be same

Question 11	
Complete	
Mark 1.00 out of 1.00	

## What will happen?

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

- a. Compilation error
- b. Compiles and runs
- o. 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
- ob. null
- c. IllegalArgumentException
- d. Illegal

## Question 13

Complete

Mark 1.00 out of 1.00

## What is true about finally block?

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

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. Caught
- o. Finally
- d. Runtime Error

## 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");
}
```

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

#### 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. Compilation error
- b. Exception
- oc. Runtime
- od. Runtime error

Question	17
GUESTION	1/

Complete

Mark 1.00 out of 1.00

Which of the following is a checked exception?

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

## 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
- ob. Catch
- c. Finally
- d. Runtime Error

## Question 19

Complete

Mark 0.00 out of 1.00

What happens if exception is thrown in finally block?



- a. Original exception is suppressed
- b. Compile-time error
- o. finally block never throws exception
- 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. Finally
- oc. Try
- od. Try 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));

va.

. 2025-02-28

tries to keep month and year as close as possible

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

# 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. 00:00:01
- ob. 23:59:61
- o. 00:01:00
- d. 00:00

Question 23 Complete Mark 1.00 out of 1.00  Which class would you use to represent a date and time with time zone?  a. Instant b. OffsetDateTime c. ZonedDateTime d. LocalDateTime	
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<ul> <li>a. Instant</li> <li>b. OffsetDateTime</li> <li>c. ZonedDateTime</li> <li>d. LocalDateTime</li> </ul> Question 24	
<ul> <li>b. OffsetDateTime</li> <li>c. ZonedDateTime</li> <li>d. LocalDateTime</li> </ul> Question 24	
<ul> <li>b. OffsetDateTime</li> <li>c. ZonedDateTime</li> <li>d. LocalDateTime</li> </ul> Question 24	
<ul><li>c. ZonedDateTime</li><li>d. LocalDateTime</li></ul> Question 24	
O d. LocalDateTime  Question 24	
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. 2023/08/15	
b. Compilation Error	
<ul><li>c. August 15, 2023</li><li>d. 2023-08-15</li></ul>	
■ u. 2025-00-13	
Question 25	
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. Throws Exception

b. System timezone offset

c. +00:00

d. null

## Question 26

Complete

Mark 1.00 out of 1.00

What does the JVM use the heap memory for?

a. Object allocation

b. Thread-local storage

o. Stack frames

od. Method calls

06/2025, 1	5, 12:29 Java-Quiz: Atten	pt review
Question	ion 27	
Complete		
	1.00 out of 1.00	
What h	at happens when an object becomes unreachable in Java?	
a.	a. It becomes eligible for GC	
<ul><li>b.</li></ul>	b. JVM throws NullPointerException	
C.	c. StackOverFlowError occurs	
<ul><li>d.</li></ul>	d. It's immediately deleted	
Question	ion 28	
Complete		
	0.00 out of 1.00	
Mark 0.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Which	ich generation in GC typically contains short-lived objects?	
<ul><li>a.</li></ul>	a. Old Generation	
) b.	c. Eden Space	
( a.	d. PermGen	
Question	ion 29	
Complete	ete	
Mark 1.00	1.00 out of 1.00	
What is	at is true about finalize() in Java?	
	The second second second second	
	a. It guarantees memory cleanup	
	•	
○ d.	d. It is used for performance	
Question	ion <b>30</b>	
Complete	ete	
Mark 1.00	1.00 out of 1.00	
What is	at is the role of System.gc()?	
<u></u> а.	, 33	
<ul><li>b.</li></ul>	·	
○ c.	c. Prevents GC	
<ul><li>d.</li></ul>	d. Deletes static data	

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

### Question 32

Complete

Mark 1.00 out of 1.00

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

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

#### Question 33

Complete

Mark 1.00 out of 1.00

# What will this code output?

- a. Worker Worker
- ob. Main Main
- o. Compiler Error
- d. 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. Runtime Exception
- b. Compilation Error
- o. Hello
- d. Hello Hello

#### 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
- ) b. Higher priority means more CPU time guaranteed
- c. Thread priority is a hint to the thread scheduler
- od. Priorities are always respected by JVM

## Question 36

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
- b. Task 1 Task 2
- C. Task 2 Task 1

. Any order of Task 1 and Task 2

runs them sequentially or paralelly

/06/2025, 12:29	Java-Quiz: Attempt review
Question 37	
Complete	
Mark 0.00 out of 1.00	
What is the key feature of ReentrantLock	over synchronized?
√a. Fairness policy and tryLock() cap	pability
b. No need to unlock manually	
oc. Simpler syntax	
od. Can't be interrupted	
Question 38	
Complete	
Mark 1.00 out of 1.00	
What will happen here? ConcurrentHashMap <string, integer=""> m</string,>	man = new ConcurrentHashMan<>():
map.put("A", 1);	They concurrently they are they concurred they are the are they are the are they are they are they are they are they are they are the are they are they are they are they are they are they are the
map.compute("A", (k, v) -> v + 1);	
<pre>System.out.println(map.get("A"));</pre>	
○ a. 1	
<ul><li>b. NullPointerException</li></ul>	
© c. 2	
d. Compilation error	
o di compilation on o	
Question 39	
Complete	
Mark 1.00 out of 1.00	
What is ForkJoinPool best suited for?	
<ul><li>a. Dividing tasks recursively and pro</li></ul>	ocessing in parallel
○ b. Long I/O-bound tasks	
c. UI event handling	
d. Thread communication	
- · · 40	

Complete

Mark 0.00 out of 1.00

What is the default parallelism level of ForkJoinPool?



✓a. Number of available processors

- b. Fixed at 4
- 0 c. 1
- d. Number of processors 1



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. CHERRYBANANA
- b. banana cherry
- o. APPLEBANANACHERRY
- d. BANANACHERRY

#### 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. 4
- ob. 16
- oc. 2
- od. 1

# Question 43

Complete

Mark 0.00 out of 1.00

## Which operation is terminal in streams?



a. peek()

b. forEach()

o. filter()

d. map()



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
- ob. a-bb-ccc-dd
- oc. bb-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(l -> l > 5).count();
System.out.println(count);
```

- a. 0
- ob. 3
- c. 2
- od. 1

## Question 46

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

,
Question 47
Complete
Mark 1.00 out of 1.00
Which collection is synchronized?
a. LinkedList
○ b. HashMap
© c. Vector
○ d. ArrayList
Question 48
Complete
Mark 1.00 out of 1.00
What does this print?
Map <string, string=""> map = new HashMap&lt;&gt;();</string,>
map.put("a", "apple");
map.put("b", "banana");
<pre>map.put("a", "avocado"); System.out.println(map.get("a"));</pre>
System sattly. Intelligence of 777
oa. apple
○ b. banana
⊚ c. avocado
od. null
Question 49
Complete
Mark 1.00 out of 1.00
What is true about HashSet?
<ul><li>a. Uses hashCode and equals</li></ul>
b. Implements List
c. Allows duplicate elements
d. Maintains insertion order
Question 50
Complete
Mark 1.00 out of 1.00
Which Map maintains insertion order?
○ a. TreeMap
○ b. HashMap
C. Hashtable
d. LinkedHashMap