Started on Monday, 9 June 2025, 4:28 PM

State Finished

Completed on Monday, 9 June 2025, 4:55 PM

Time taken 27 mins 34 secs

Marks 42.00/50.00

Grade 84.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

What will this code output?

- a. Main Main
- b. Thread-0 Thread-0
- C. Compiler Error
- od. Worker Worker

Question 2

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

Question 3
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
- Ob. CHERRYBANANA
- c. BANANACHERRY
- d. APPLEBANANACHERRY

Question 4

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. A: 10
- O c. B: 20
- d. Runtime Error

Question 5

Complete

Mark 1.00 out of 1.00

What happens when an object becomes unreachable in Java?

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

Question 6
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. Compilation Error
- b. Runtime Exception
- Oc. Hello
- Od. Hello Hello

Question 7

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
- O c. 2
- d. 4

Question 8

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. Finally
- Ob. Catch
- oc. Catch Finally
- Od. Runtime Error

Complete Mark 1.00 out of 1.00	Question 9
Mark 1.00 out of 1.00	Complete
Walk 1.00 Cat of 1.00	Mark 1.00 out of 1.00

Which Map maintains insertion order?

- a. TreeMap
- b. LinkedHashMap
- c. HashMap
- d. Hashtable

Question 10

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

Question 11

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 20
- O b. 10 10
- oc. 010
- Od. 2020

Question 12 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. Compilation error
- b. Super
- c. Runtime error
- d. Sub

Question 13

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
- oc. Bark
- d. Compilation error

Question 14 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. Public
- Ob. Runtime error
- o. Private
- d. Compilation error

Question 15

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
- b. Caught Finally
- c. Finally
- d. Caught

Question 16	
Complete	
Mark 1.00 out of 1.00	
What does this print?	
<pre>LocalTime time = LocalTime.of(23, 59, 59); System.out.println(time.plusSeconds(2));</pre>	
a. 00:01:00	
○ b. 23:59:61	
oc. 00:00	
o d. 00:00:01	
Question 17	
Complete	
Mark 1.00 out of 1.00	
c. Priority affects the order of execution deterministicallyd. Higher priority means more CPU time guaranteed	
Question 18	
Complete	
Complete Mark 1.00 out of 1.00	
Mark 1.00 out of 1.00	
Mark 1.00 out of 1.00 What is ForkJoinPool best suited for?	
Mark 1.00 out of 1.00 What is ForkJoinPool best suited for? a. Thread communication	
Mark 1.00 out of 1.00 What is ForkJoinPool best suited for? a. Thread communication b. Long I/O-bound tasks	
What is ForkJoinPool best suited for? a. Thread communication b. Long I/O-bound tasks c. UI event handling d. Dividing tasks recursively and processing in parallel	
What is ForkJoinPool best suited for? a. Thread communication b. Long I/O-bound tasks c. UI event handling d. Dividing tasks recursively and processing in parallel	

 \bigcirc d. Abstract class with static methods

O b. A class with both abstract and non-abstract methods

o. Abstract class with constructor

Question 20
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. ZonedDateTime
- o. LocalDateTime
- d. OffsetDateTime

Question 21

Complete

Mark 0.00 out of 1.00

Which of the following is not true for method overriding?

- a. Access modifier can be more restrictive
- Ob. Method must be inherited
- \bigcirc c. Method name must be same
- d. Return type must be same or subtype

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
- Ob. Compilation error
- O c. 12
- O d. I1 I2

Question 23	
Complete	
Mark 0.00 out of 1.00	
Which operation is terminal in streams?	
a. peek()	
Ob. filter()	
○ c. map()	
○ d. forEach()	
Question 24	
Complete	
Mark 1.00 out of 1.00	
What is the output?	
try {	
<pre>throw new IllegalArgumentException("Illegal"); } catch (IllegalArgumentException e) {</pre>	
System.out.println(e.getMessage());	
}	
○ a. null	
b. IllegalArgumentException	
c. Exception	
d. Illegal	
e d. iliegai	
25	
Question 25 Complete	
Mark 1.00 out of 1.00	
Which collection is synchronized?	
When concerton is syntament action.	
○ a. HashMap	
b. Vector	
○ c. ArrayList	
○ d. LinkedList	
Question 26	
Complete	
Mark 1.00 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));	
Secretary of Court of the State	
a. DateTimeException	
○ b. 2025-02-29	
○ c. 2025-03-01	
(a) d. 2025-02-28	

Java-Quiz:	Attempt	review

Question 27	
Complete	
Mark 1.00 out of 1.00	
What is true about HashSet?	
a. Uses hashCode and equals	
○ b. Implements List	
c. Allows duplicate elements	
d. Maintains insertion order	
Question 28	
Complete	
Mark 1.00 out of 1.00	
What is true about constructors in Java?	
a. Constructor name can be different from class name	
b. A constructor can call another constructor in the same class using this()	
○ c. Constructors can be inherited	
○ d. Constructors must be public	
Question 29	
Complete	
Mark 1.00 out of 1.00	
What will this output?	
Stream <string> s = Stream.of("java", "lambda", "stream");</string>	
<pre>long count = s.map(String::length).filter(1 -> 1 > 5).count();</pre>	
System.out.println(count);	
a. 2	
○ b. 0	
○ c. 3	
○ d. 1	
Question 30	
Complete	
Mark 1.00 out of 1.00	
What will happen here?	
ConcurrentHashMap <string, integer=""> map = new ConcurrentHashMap<>();</string,>	
map.put("A", 1); map.compute("A", (k, v) -> v + 1);	
<pre>System.out.println(map.get("A"));</pre>	
a. 2	
b. Compilation error	
○ c. 1	
d. NullPointerException	

Question 31	
Complete	
Mark 0.00 out of 1.00	
Which generation in GC typically contains short-lived objects?	

- a. Eden Space
- Ob. Tenured
- o. PermGen
- od. Old Generation

Question 32

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();
   }
```

- Oa. Only one "Thread running"
- Ob. Runtime error
- c. Thread running Thread running
- Od. Compilation error

Question 33
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. Derived show()
- Ob. Compilation error
- c. Base show()
- Od. Runtime error

Question 34

Complete

Mark 1.00 out of 1.00

Which of the following is a checked exception?

- a. IllegalArgumentException
- Ob. NullPointerException
- c. ArithmeticException
- d. FileNotFoundException

${\tt Question}~35$

Complete

Mark 0.00 out of 1.00

What is the default parallelism level of ForkJoinPool?

- a. Fixed at 4
- O b. 1
- c. Number of processors 1
- \bigcirc d. Number of available processors

Question 36
Complete
Mark 1.00 out of 1.00
What does the JVM use the heap memory for?
a. Object allocation
b. Stack frames
○ c. Method calls
○ d. Thread-local storage
Question 37
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. August 15, 2023
c. Compilation Error
d. 2023-08-15
20
Question 38 Complete
Mark 1.00 out of 1.00
What does this print?
Map <string, string=""> map = new HashMap<>();</string,>
<pre>map.put("a", "apple");</pre>
<pre>map.put("b", "banana"); map.put("a", "avocado");</pre>
System.out.println(map.get("a"));
○ a. banana
b. apple
C. null
d. avocado
Question 39
Complete
Mark 1.00 out of 1.00
What is true about finally block?
a. It always executes regardless of exceptions
b. It must be used with catch
c. It is optional
○ d. It executes only if no exception occurs

Question 40	
Complete Mark 1.00 out of 1.00	
Walk 1.50 Out of 1.50	
What will happen?	
class A {	
<pre>final void show() {}</pre>	
class B extends A {	
<pre>void show() {}</pre>	
}	
a. Compilation error	
O b. Runtime error	
○ c. Compiles and runs	
○ d. Shows nothing	
Question 41	
Complete Mark 0.00 out of 1.00	
Walk 0.00 Out of 1.00	
What is the output?	
<pre>Instant instant = Instant.now();</pre>	
<pre>ZonedDateTime zdt = instant.atZone(ZoneId.of("UTC")); System.out.println(zdt.getOffset());</pre>	
System for the International Control of the I	
a. System timezone offset	
○ b. Throws Exception	
○ c. +00:00	
O d. null	
Question 42	
Complete	
Mark 1.00 out of 1.00	
What is the role of System.gc()?	
mac is the role of system.get/.	
a. Requests GC but does not force it	
○ b. Deletes static data	
○ c. Immediately triggers GC	
○ d. Prevents GC	

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Question 43
Complete Mark 1.00 out of 1.00
INDICATE LOOP OUT OF 1.00
What is the result?
<pre>List<string> list = Arrays.asList("a", "bb", "ccc", "dd"); String result = list.stream()</string></pre>
<pre>.filter(s -> s.length() == 2)</pre>
<pre>.collect(Collectors.joining("-")); System.out.println(result);</pre>
○ a. bb
b. bb-dd
○ c. a-bb-ccc-dd
○ d. bbd
Question 44
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 45
Complete
Mark 1.00 out of 1.00
Which method causes the current thread to wait until another completes?
a. yield()
b. join()
c. wait()
d. sleep()
Question 46
Complete
Mark 1.00 out of 1.00
What is the key feature of ReentrantLock over synchronized?
a. No need to unlock manually
○ b. Simpler syntax
c. Can't be interrupted
d. Fairness policy and tryLock() capability

Question 47 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. Any order of Task 1 and Task 2
- Ob. Task 2 Task 1
- oc. Task 1 Task 2
- d. Compilation error

Question 48

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

Question 49

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. Program compiles but doesn't run
- Ob. Compilation error
- o. ArithmeticException is thrown after finally
- d. Done

estion 50	
mplete	
rk 0.00 out of 1.00	
What happens if exception is thrown in finally block?	
a. Compile-time error	
○ b. Both exceptions are printed	
b. Both exceptions are printedc. finally block never throws exception	