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Java SE 21 Developer Professional



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Question: 1

What will be the result of the following expression: `Math.sqrt(16) + Math.pow(2, 3) / 2`?

- A. 10.0
- B. 8.0
- C. 6.0
- D. 12.0

Answer: A

Question: 2

Which method is used to replace all occurrences of a substring within a `StringBuilder` object?

- A. `replace()`
- B. `set()`
- C. `change()`
- D. `alter()`

Answer: A

Question: 3

Which Date-Time API class is used to represent a date without time and time-zone information?

- A. `LocalDateTime`
- B. `ZonedDateTime`
- C. `LocalDate`
- D. `Instant`

Answer: C

Question: 4

Which of the following statements about switch expressions in Java SE 21 is true?

- A. Switch expressions can return a value.
- B. Switch expressions do not allow multiple cases for a single value.
- C. Switch expressions must end with a semicolon.
- D. Switch expressions cannot include a default case.

Answer: A

Question: 5

What is true about an object's eligibility for garbage collection in Java?

- A. An object becomes eligible for garbage collection when it is assigned to a new variable.
- B. An object becomes eligible for garbage collection when there are no more references to it.
- C. An object is automatically garbage collected when it goes out of scope.
- D. An object must be manually deleted using the delete() method.

Answer: B

Question: 6

Which of the following statements is correct about records in Java?

- A. Records can have instance fields but not static fields.
- B. Records are immutable data carriers.
- C. Records do not support constructors.
- D. Records cannot implement interfaces.

Answer: B

Question: 7

How can you account for Daylight Saving Time when working with time-zone objects in Java?

- A. Use the ZonedDateTime class to handle time-zone offsets automatically.
- B. Manually adjust the time using LocalDateTime.
- C. Daylight Saving Time is automatically ignored by the Date-Time API.
- D. Use the Calendar class instead of the Date-Time API.

Answer: A

Question: 8

What will be the output of the following code?

```
```java
int a = 10;
int b = 3;
double c = (double) a / b;
System.out.println(c);
```
```

- A. 3
- B. 3.0
- C. 3.3333
- D. 3.3333333333333335

Answer: D

Question: 9

Which of the following is a valid switch expression in Java SE 21?

- A. `int result = switch (value) { case 1 -> "One"; case 2 -> "Two"; default -> "Unknown"; };`
- B. `int result = switch (value) { case 1 -> 1; case 2 -> 2; default -> 0; };`
- C. `String result = switch (value) { case 1 -> "One"; case 2 -> "Two"; default -> "Unknown"; };`
- D. All of the above

Answer: C

Question: 10

Which statement about the life-cycle of an object in Java is true?

- A. An object's life begins when its constructor is called and ends when it is garbage collected.
- B. An object's life begins when the program starts and ends when the program ends.
- C. An object's life begins when it is assigned to a variable and ends when the variable goes out of scope.
- D. An object's life begins and ends within the same method call.

Answer: A

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