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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 ZoneId 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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