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# SCJP / OCPJP

## Question Bank

### Chapter 3 : Operators



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### 3. Operators

**Q: 01 Given:**

```
11. public class Test {  
12. public static void main(String [] args) {  
13. int x = 5;  
14. boolean b1 = true;  
15. boolean b2 = false;  
16.  
17. if ((x == 4) && !b2 )  
18. System.out.print("1 ");  
19. System.out.print("2 ");  
20. if ((b2 = true) && b1 )  
21. System.out.print("3 ");  
22. }  
23. }
```

**What is the result?**

- A. 2
- B. 3
- C. 1 2
- D. 2 3
- E. 1 2 3
- F. Compilation fails.
- G. An exception is thrown at runtime.

**Answer: D**

**Q: 02 Given the command line java Pass2 and:**

```
15. public class Pass2 {  
16. public void main(String [] args) {  
17. int x = 6;  
18. Pass2 p = new Pass2();  
19. p.doStuff(x);  
20. System.out.print(" main x = " + x);  
21. }  
22.  
23. void doStuff(int x) {  
24. System.out.print(" doStuff x = " + x++);  
25. }  
26. }
```

**What is the result?**

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. doStuff x = 6 main x = 6
- D. doStuff x = 6 main x = 7
- E. doStuff x = 7 main x = 6
- F. doStuff x = 7 main x = 7

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Answer: B

Q: 03 Given:

```
13. public class Pass {  
14. public static void main(String [] args) {  
15. int x = 5;  
16. Pass p = new Pass();  
17. p.doStuff(x);  
18. System.out.print(" main x = " + x);  
19. }  
20.  
21. void doStuff(int x) {  
22. System.out.print(" doStuff x = " + x++);  
23. }  
24. }
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. doStuff x = 6 main x = 6
- D. doStuff x = 5 main x = 5
- E. doStuff x = 5 main x = 6
- F. doStuff x = 6 main x = 5

Answer: D



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Question: 04

Given:

```
42. public class ClassA {  
43. public int getValue() {  
44. int value=0;  
45. boolean setting = true;  
46. String title="Hello";  
47. if (value || (setting && title == "Hello")) { return 1; }  
48. if (value == 1 & title.equals("Hello")) { return 2; }  
49. }  
50. }
```

And:

```
70. ClassA a = new ClassA();
```

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71. `a.getValue();`

What is the result?

- A. 1
- B. 2
- C. Compilation fails.
- D. The code runs with no output.
- E. An exception is thrown at runtime.

Answer: C

Question: 05

Given:

```
3. public class Batman {  
4.     int squares = 81;  
5.     public static void main(String[] args) {  
6.         new Batman().go();  
7.     }  
8.     void go() {  
9.         incr(++squares);  
10.        System.out.println(squares);  
11.    }  
12.    void incr(int squares) { squares += 10; }  
13. }
```

What is the result?

- A. 81
- B. 82
- C. 91
- D. 92
- E. Compilation fails.
- F. An exception is thrown at runtime.

Answer: B



Question: 06

Given:

```
1. class ClassA {  
2.     public int numberOfInstances;  
3.     protected ClassA(int numberOfInstances) {  
4.         this.numberOfInstances = numberOfInstances;  
5.     }  
6. }
```

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```
5. }  
6. }  
7. public class ExtendedA extends ClassA {  
8. private ExtendedA(int numberOfInstances) {  
9. super(numberOfInstances);  
10. }  
11. public static void main(String[] args) {  
12. ExtendedA ext = new ExtendedA(420);  
13. System.out.print(ext.numberofInstances);  
14. }  
15. }
```

Which statement is true?

- A. 420 is the output.
- B. An exception is thrown at runtime.
- C. All constructors must be declared public.
- D. Constructors CANNOT use the private modifier.
- E. Constructors CANNOT use the protected modifier.

Answer: A

Question: 07

Given:

```
3. public class Spock {  
4. public static void main(String[] args) {  
5. Long tail = 2000L;  
6. Long distance = 1999L;  
7. Long story = 1000L;  
8. if((tail > distance) ^ ((story * 2) == tail))  
9. System.out.print("1");  
10. if((distance + 1 != tail) ^ ((story * 2) == distance))  
11. System.out.print("2");  
12. }  
13. }
```

What is the result?

- A. 1
- B. 2
- C. 12
- D. Compilation fails.
- E. No output is produced.
- F. An exception is thrown at runtime.

Answer: E

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