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Topic 1, Volume A

QUESTION NO: 1

Given:

```
10. class One {  
11. void foo() { }  
12. }  
13. class Two extends One {  
14. //insert method here  
15. }
```

Which three methods, inserted individually at line 14, will correctly complete class Two? (Choose three.)

- A. `public void foo() { /* more code here */ }`
- B. `private void foo() { /* more code here */ }`
- C. `protected void foo() { /* more code here */ }`
- D. `int foo() { /* more code here */ }`
- E. `void foo() { /* more code here */ }`

Answer: A,C,E

Explanation:

QUESTION NO: 2

Which two code fragments correctly create and initialize a static array of int elements? (Choose two.)

- A. `static final int[] a = { 100,200 };`
- B. `static final int[] a;
static { a=new int[2]; a[0]=100; a[1]=200; }`
- C. `static final int[] a;
static void init() { a = new int[3]; a[0]=100; a[1]=200; }`
- D. `static final int[] a = new int[2]{ 100,200 };`

Answer: A,B

Explanation:

QUESTION NO: 3

Click the Exhibit button.

Given this code from Class B:

- 25. A a1 = new A();
- 26. A a2 = new A();
- 27. A a3 = new A();
- 28. System.out.println(A.getInstanceCount());

What is the result?

```
1. public class A {
2.
3.     private int counter = 0;
4.
5.     public static int getInstanceCount() {
6.         return counter;
7.     }
8.
9.     public A() {
10.        counter++;
11.    }
12.
13. }
```

- A. Compilation of class A fails.
- B. Line 28 prints the value 3 to System.out.
- C. Line 28 prints the value 1 to System.out.
- D. Compilation fails because of an error on line 28.
- E. A runtime error occurs when line 25 executes.

Answer: A

Explanation:

QUESTION NO: 4

Given:

```
20. public class CreditCard {  
21.  
22. private String cardID;  
23. private Integer limit;  
24. public String ownerName;  
25.  
26. public void setCardInformation(String cardID,  
27. String ownerName,  
28. Integer limit) {  
29. this.cardID = cardID;  
30. this.ownerName = ownerName;  
31. this.limit = limit;  
32. }  
33. }
```

Which statement is true?

- A. The cardID and limit variables break polymorphism.
- B. The code demonstrates polymorphism.
- C. The ownerName variable breaks encapsulation.
- D. The setCardInformation method breaks encapsulation.
- E. The class is fully encapsulated.

Answer: C

Explanation:

QUESTION NO: 5

Given:
