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Python Institute PCAP-31-02

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QUESTION NO: 1

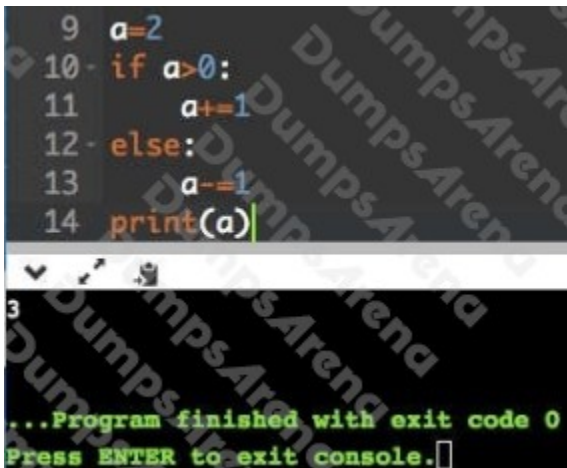
What is the expected output of the following snippet?

```
a=2
if a>0:
    a+=1
else:
    a-=1
print(a)
```

- A. 3
- B. 1
- C. 2
- D. the code is erroneous

ANSWER: A

Explanation:



```
9 a=2
10 if a>0:
11     a+=1
12 else:
13     a-=1
14 print(a)
```

...Program finished with exit code 0
Press ENTER to exit console.

QUESTION NO: 2

Which of the following literals reflect the value given as 34.23? (Select two answers)

- A. .3423e2
- B. 3423e-2
- C. .3423e-2
- D. 3423e2

ANSWER: A B

Explanation:



```
9 print(.3423e2)
10 print(3423e-2)

34.23
34.23

...Program finished with exit code 0
Press ENTER to exit console.
```

QUESTION NO: 3

The following expression

$$1+-2$$

is:

- A. equal to 1
- B. invalid
- C. equal to 2
- D. equal to -1

ANSWER: D

Explanation:

```
8 print (1+-2)
-1
...Program finished with exit code 0
Press ENTER to exit console.
```

QUESTION NO: 4

A function called `issubclass(c1, c2)` is able to check if:

- A. `c1` and `c2` are both subclasses of the same superclass
- B. `c2` is a subclass of `c1`
- C. `c1` is a subclass of `c2`
- D. `c1` and `c2` are not subclasses of the same superclass

ANSWER: C**Explanation:**

Reference: <https://www.oreilly.com/library/view/python-in-a/9781491913833/ch04.html>

QUESTION NO: 5

Assuming that the following snippet has been successfully executed, which of the equations are True? (Select two answers)

```
a = [1]
b = a
a[0] = 0
```

- A. `len(a) == len(b)`
- B. `b[0] + 1 == a[0]`
- C. `a[0] == b[0]`
- D. `a[0] + 1 == b[0]`

ANSWER: A C**Explanation:**

```
9 a=[1]
10 b=a
11 a[0]=0
12 print(len(a) == len(b))
```

True

...Program finished with exit code 0
Press ENTER to exit console.

QUESTION NO: 6

Which of the following words can be used as a variable name? (Select two valid names)

- A. for
- B. True
- C. true
- D. For

ANSWER: B D**Explanation:**Reference: <https://www.pluralsight.com/guides/python-basics-variables-assignment>**QUESTION NO: 7**

What is the expected output of the following code?

```
1st = [x for x in range (5)]
1st = list (filter (lambda x: x % 2 == 0, 1st))
print (len(1st))
```

- A. 2
- B. The code will cause a runtime exception
- C. 1

D. 3

ANSWER: B

QUESTION NO: 8

And operator able to perform bitwise shifts is coded as (Select two answers)

- A. --
- B. ++
- C. <<
- D. >>

ANSWER: C D

Explanation:

Reference: <https://www.geeksforgeeks.org/basic-operators-python/>

QUESTION NO: 9

Assuming that the V variable holds an integer value to 2, which of the following operators should be used instead of OPER to make the expression equal to 1?

V OPER 1

- A. <<<
- B. >>>
- C. >>
- D. <<

ANSWER: A

QUESTION NO: 10

A compiler is a program designed to (Select two answers)

- A. rearrange the source code to make it clearer
- B. check the source code in order to see if it's correct

C. execute the source code

D. translate the source code into machine code

ANSWER: B C