PCEP-30-02^{Q&As}

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QUESTION 1

What is the expected output of the following code?

```
1     def func(x, y=2):
2         num = 1
3         for i in range(y):
4             num = num * x
5         return num
6
7
8     print(func(4))          # 16 (4 * 4)
9     print(func(4, 4))       # 256 (4 * 4 * 4 * 4)
10
11    import math
12    print(math.pow(4, 2))   # 16.0
13    # print(math.pow(4))    # TypeError: pow expected 2 arguments, got 1
```

A. 1 | 128 2 | 512

B. 1 | 8 2 | 16

C. 1 | 32 2 | 1024

D. 1 | 16 2 | 256

Correct Answer: D

QUESTION 2

Insert the code boxes in the correct positions in order to build a line of code which asks the user for a float value and assigns it to the mass variable. (Note: some code boxes will not be used.)

Select and Place:

3 / 5

Correct Answer:

One possible way to insert the code boxes in the correct positions in order to build a line of code that asks the user for a float value and assigns it to the mass variable is:

mass = float(input("Enter the mass: "))

This line of code uses the input function to prompt the user for a string value, and then uses the float function to convert that string value into a floating-point number. The result is then assigned to the variable mass.

You can find more information about the input and float functions in Python in the following references:

[Python input() Function]

[Python float() Function]

QUESTION 3

What is the expected output of the following code?

```
 1    data = {}
 2    data[1] = 1
 3    data['1'] – 2
 4    data[1.0] = 4
 5
 6    res = 0
 7    for d in data:
 8        res ⏋= data[d]
 9
10    print(res)
```

A. 3

B. The code is erroneous.

C. 6

D. 7

Correct Answer: C

QUESTION 4

The fact that tuples belong to sequence types means:

A. they can be modi ed using the del instruction

B. they can be extended using the .append() method

C. they are actually lists

D. they can be indexed and sliced like lists

Correct Answer: D

QUESTION 5

The unnamed except block ...

A. must be the rst one.

B. cannot be used if any named block has been used.

C. must be the last one.

D. can be placed anywhere.

Correct Answer: C