

1. True or False: A class can serve as a base class for many derived classes.

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- ☒ True
- ☐ False



Correcto

Correct! Theoretically it can be superclass for infinite subclasses.

2. In case of multiple inheritance where C is a derived class inheriting from both class A and B, and where a and b are the respective objects for these classes, which of the following code will inherit the classes A and B correctly? (Select all that apply)

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☒ class C(A, B)



Correcto

Correct! Code works irrespective of the order the classes are passed.

☒ class C(B, A)



Correcto

Correct! Code works irrespective of the order the classes are passed.

☐ class (a, b)

☐ class(a, B)

3. In Example 3 of the previous exercise, if we had modified the code to include a global variable 'a = 5' as follows:

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```
9 class C(B):
10     pass
11
12 c = C()
13 print(c.a())
```

Will the code work and what will be the output if it does?

- ☒ No
- ☐ Yes and it will print the value 5
- ☐ Yes and it will print the value 7

✓ **Correcto**
Correct! As the print statement is over the object c.

4. What function can be used other than mro() to see the way classes are inherited in a given piece of code?

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- ☐ class()
- ☒ help()
- ☐ dir()
- ☐ info()

✓ **Correcto**
Correct! help() can be used other than mro() to see the way classes are inherited in a given piece of code.

5. The super() function is used to? (Select all that apply)

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- ☒ call child class __init__()

✓ **Correcto**
Correct! It is called over child class __init__() and refers parent class __init__()

- ☐ call different parent class method
- ☒ called over the __init__() method of the class it is called from

✓ **Correcto**
Correct. That will refer the __init__() of parent class.

6. What is the type of inheritance in the code below:

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```
6      pass
```

- ☐ Hierarchical
- ☒ Multi-level
- ☐ Multiple
- ☐ Single



Correcto

Correct! Multi-level is the type of inheritance in the code