```
Començat el dimecres, 3 d'abril 2024, 12:10

Estat Acabat

Completat el dimecres, 3 d'abril 2024, 12:33

Temps emprat 23 minuts 32 segons

Punts 18,8/22,0

Qualificació 8,6 sobre 10,0 (85,6%)
```

## Given:

Puntuació 0,0 sobre 1,0

Please consider the call:

### g(4,0)

Mark the valid result:

- a. two x one zerob. zero
- c. two
  d. zero
- e. division error
- f. one zero
- g. one

La resposta correcta és: one zero

3/24, 12.42 114	Middelli quizz. Nevisio de l'intent   CAMI OS VINTOAL OFC
Pregunta 2	
Parcialment correcte	
Puntuació 0,5 sobre 1,0	
Given:	
<pre>def g(a,b=0):   return(a*b)</pre>	
Mark the valid invocations:	
■ a. g(b=1)	
□ b. g(b=1,0)	
C. g(a=0) ✓	
☐ d. g(1)	
Les respostes correctes són: g(1), g(a=0)	
Pregunta 3	
Correcte	
Puntuació 1,0 sobre 1,0	

## Consider the following code

```
a = [..., some lements in the list, ...]
b = list(a)
The result of
a is b
is:

a. True

b. False ✓
```

La resposta correcta és: False

# Pregunta 4 Correcte Puntuació 1,0 sobre 1,0

#### Consider the code (arrows are tabs):

```
def something(n,i):
    return(all(n%i != 0 for i in range(2,n)))
```

#### returns:

- a. Will Return A True or False 

  ✓
- b. n if n is even
- oc. An even number
- od. n/2 i n is even
- e. A list of booleans
- f. An odd number
- g. None of the other responses

La resposta correcta és: Will Return A True or False

#### Pregunta 5

Correcte

Puntuació 1,0 sobre 1,0

#### Given the following code

from functools import reduce

```
l = [1,0,1,0,0,1,1,0,1]
r = reduce(lambda x,y:y, map(lambda x: x+1, l))
r is equal to:

    a. 0
    b. 1
    c. None
    d. 2 	✓
    e. 6
```

La resposta correcta és: 2

f. 7g. 4

Pregunta 6	
Correcte	
Puntuació 1,0 sobre 1,0	

#### The function:

```
def c():
    i = 0
    while ("zero"):
        i += 1
        yield(i)
```

#### behaves as a:

- a. a decorator
- b. a generator 

  ✓

La resposta correcta és: a generator

#### Pregunta 7

Correcte

Puntuació 1,0 sobre 1,0

What of the following types are immutable?

- 🗸 a. tuple 🗸
- b. dictionary
- c. set
- d. string 🗸
- e. list

Les respostes correctes són: tuple, string



Assuming the following code

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

a[0] = 0

has been correctly executed, which sentences are True?:

- a. a[0]+1 == b[0]
- b. b[0]+1 == a[0]
- ✓ d. a[0] == b[0] 
  ✓
- e. a is b 

  ✓

Les respostes correctes són: len(a) == len(b), a[0] == b[0], a is b

#### Pregunta 9

Correcte

Puntuació 1,0 sobre 1,0

Which of the following is an invalid statement?

- a. abc = 7,000,000
- ☑ b. a b c = 1000 5000 7000
- c. a,b,c = 1000, 6000, 7000
- $a_b_c = 6,000,000$

La resposta correcta és: a b c = 1000 5000 7000

```
4/3/24, 12:42 PM
                                                     Midterm quizz: Revisió de l'intent | CAMPUS VIRTUAL UPC
  Pregunta 10
  Correcte
  Puntuació 1,0 sobre 1,0
    The code
    ["ht",3+5j,abs,min,5.6][:5:2]
    returns:
     a. [(3+5j), 5.6]
     b. None
     c. an error
     d. ['ht']
     ● e. ['ht', function abs, 5.6] 
     O f. []
    La resposta correcta és: ['ht', function abs, 5.6]
  Pregunta 11
  Parcialment correcte
  Puntuació 0,3 sobre 1,0
    Consider the following code, stored on a file with name api.py:
    from fastapi import FastAPI
    app = FastAPI()
    @app.get("/")
    def fun():
       return{"Hello":"Scipy"}
    You code in a terminal in your computer:
    $ uvicorn api:app --reload
    Please mark the True sentences:
     a. The purpose of the code is to serve the method fun() as a web service
     b. fun() is a decorator
     c. the method fun() returns a string
     d. fun()["hello"] = "world"
     e. the api is served on a cloud-based remote server

☑ f. app.get() is a decorator 
✓
```

Les respostes correctes són: The purpose of the code is to serve the method fun() as a web service, app.get() is a decorator, fun()["hello"] = "world"

/3/24, 12:42 PM	Midterm quizz: Revisió de l'intent   CAMPUS VIRTUAL UPC
Pregunta 12	
Correcte	
Puntuació 1,0 sobre 1,0	
Which of the following sentences are true?	
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
$\blacksquare$ b. Lists may be stored inside lists $\checkmark$	
d. Tuples may not be stored inside tuples	
Les respostes correctes són: Tuples may be sto	red inside lists, Lists may be stored inside lists
Pregunta 13	
Correcte	
Puntuació 1,0 sobre 1,0	
The code	
["ht",3+5j,abs,min,5.6][2](-5)-5	
returns:	
a. 0   ✓	
o b. None	
oc. an error	
○ d. 0j	
○ e10	
La resposta correcta és: 0	
Pregunta 14	
Correcte	
Puntuació 1,0 sobre 1,0	
A function can be decorated by more than two d	ecorators.
Trieu-ne una:	
○ Vertader ✔	
○ Fals	
La resposta correcta és 'Vertader'.	

https://atenea.upc.edu/mod/quiz/review.php? attempt = 5746451&cmid = 4446851

# Pregunta 15 Correcte Puntuació 1,0 sobre 1,0

Consider the code (arrows are tabs):

```
def c():
    i = 0
    while ("zero"):
        i += 1
        yield(i)
d = c()
p = map(lambda i: 4.*i*i /(4.*i*i-1), d)
o = 1
for n in range(100):
    o *= next(p)
```

The value of o, is:

- a. error
- b. e, approximately
- o. pi/2, approximately 

  ✓
- d. 0, approximately
- e. pi, approximately
- f. 1, approximately
- g. 100, exactly

La resposta correcta és: pi/2, approximately

#### Pregunta 16

Correcte

Puntuació 1,0 sobre 1,0

Please check the code:

```
for k in range(5):
pass
```

In this case k is:

- a. not initialized
- b. 4 

  ✓
- Oc. 5
- od. 6

La resposta correcta és: 4

Pregunta 17	
Correcte	
Puntuació 1,0 sobre 1,0	

Assuming the following code

- a = [1] b = a[:]
- a[0] = 0

has been correctly executed, which sentences are True?:

- b. a[0] == b[0]
- C. a is b
- $\Box$  d. a[0]-1 == b[0]

Les respostes correctes són: len(a) == len(b), b[0]-1 == a[0]

### Pregunta 18

Correcte

Puntuació 1,0 sobre 1,0

Python is a case sensitive language.

Trieu-ne una:

- Vertader
- Fals

La resposta correcta és 'Vertader'.

Correcte	Pregunta 19	
	Correcte	
Puntuació 1,0 sobre 1,0	Puntuació 1,0 sobre 1,0	

Given the following list
l = [3,8,1,0,6,4]

What is the output of
[k\*\*.5 for k in l][-1]

.

a. 2

b. 2.0 
c. 3.0

d. 3

e. An error

f. -2

La resposta correcta és: 2.0

## Pregunta 20

No s'ha respost

Puntuat sobre 1,0

Can a module run like regular code?

- a. it depends on the Python version
- $\bigcirc$  b. yes, but we cannot differentiate its behavior between the regular launch and import
- oc. yes, and we can differentiate its behavior between the regular launch and import
- od. no, it is not possible; a module can be imported, but never run

La resposta correcta és: yes, and we can differentiate its behavior between the regular launch and import

/24, 12:42 PM	Midterm quizz: Revisió de l'intent   CAMPUS VIRTUAL UPC	
Pregunta <b>21</b>		
Correcte		
Puntuació 1,0 sobre 1,0		
Consider the code:		
def gen():		
<pre>yield("one") yield("two")</pre>		
The line:		
next(gen)		
returns:		
a. an error   ✓		
ob. "one"		
oc. "two"		
La resposta correcta és: an error		
Pregunta <b>22</b>		
Correcte		
Puntuació 1,0 sobre 1,0		
The difference between a 'list' and a 'tup	le' is that (mark all that apply):	
a. the elements in a tuple can be n	nodifed	
□ b. lists are faster		

La resposta correcta és: lists are mutable

e. tuples are mutable