1.	Python is an interpreted language. Which of the following statements correctly describes an interpreted language?	1/1 point
	The source code is pre-built and compiled before running.	
	The source code is converted into bytecode that is then executed by the Python virtual machine.	
	O Python will save all code first prior to running.	
	O Python needs to be built prior to it being run.	
	Correct Correct! Unlink other programming languages Python does not need to be built or linked for the code to run.	
2	Why to industrial and the Dubbar 2	
۷.	Why is indentation important in Python?	1/1 point
	The code will compile faster with indentation.	
	Python used indentation to determine which code block starts and ends.	
	It makes the code more readable.	
	The code will be read in a sequential manner	
	Correct Correct! Python does not use curly braces like other languages, so it leverages off indentation to determine where the code blocks start and end.	

<pre>anames.insert(2, "Xi") print(names) ["Anna", "Natasha", 2, "Xi", "Mike"] ["Anna", "Xi", "Mike"] ["Anna", "Natasha", "Xi", "Mike"] ["Anna", "Natasha", "Xi", "Mike"] ["Anna", "Natasha", Xi] Correct Correct! The insert() function displaces the remaining list after inserting the element passed.</pre> What will be the output of the code below?	b.What will be the output of the following code?	1/1 poin
["Anna", "Xi", "Mike"] ["Anna", "Natasha", "Xi", "Mike"] ["Anna", "Natasha", Xi] Correct Correct! The insert() function displaces the remaining list after inserting the element passed. What will be the output of the code below? for x in range(1, 4): print(int((str((float(x)))))) 1.0, 2.0 "one", "two" Will give an error		
<pre> ["Anna", "Natasha", "Xi", "Mike"] ["Anna", "Natasha", Xi] Correct Correct! The insert() function displaces the remaining list after inserting the element passed. What will be the output of the code below? 1/ for x in range(1, 4): print(int((str((float(x)))))) 1.0, 2.0 "one", "two" Will give an error Will give an error</pre>	("Anna", "Natasha", 2, "Xi", "Mike"]	
<pre>["Anna", "Natasha", Xi] Correct Correct! The insert() function displaces the remaining list after inserting the element passed. What will be the output of the code below? for x in range(1, 4): print(int((str((float(x)))))) 1.0, 2.0 "one", "two" Will give an error</pre> Will give an error	("Anna", "Xi", "Mike"]	
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Correct! The insert() function displaces the remaining list after inserting the element passed. Vhat will be the output of the code below?	("Anna", "Natasha", Xi]	
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one", "two"Will give an error		
one", "two"Will give an error		1/1 poir
Will give an error	1 for x in range(1, 4):	
	<pre>1 for x in range(1, 4): 2</pre>	
O 1,2	<pre>1 for x in range(1, 4): 2 print(int((str((float(x))))))</pre>	
	<pre>1 for x in range(1, 4): 2 print(int((str((float(x)))))) O</pre>	
Correct Correct! The float will first convert into string and output such as <class 'float'=""> which cannot be converted into int.</class>	<pre>1 for x in range(1, 4):</pre>	

```
sample_dict = {1: 'Coffee', 2: 'Tea', 3: 'Juice'}
for x in sample_dict:
    print(x)
```

123

O {123}

Coffee', 'Tea', 'Juice'

(1, 'Coffee')

(2, 'Tea')

(3, 'Juice')

⊘ Correct

Correct! The default values printed from a dictionary are keys.

6. What will be the output of the recursive code below? 1/1 point def recursion(num): 1 2 print(num) next = num - 3 if next > 1: recursion(next) 5 6 recursion(11) 0 25811 O 258 11852 0 852 **⊘** Correct Correct! The values printed have difference of 3, but printed in opposite order. 7. What will be the type of time complexity for the following piece of code: 1/1 point def bigo(numbers): for i in numbers: 2 3 print(numbers) bigo([1, 7, 13, 19]) O Logarithmic Time O Constant Time O Quadratic Time Linear Time

Correct! The single for loop will have linear time depending on the size of the input sequence.

⊘ Correct

8. What will be the output of the code below: 1/1 point str = 'Pomodoro' 1 for 1 in str: if 1 == 'o': 3 str = str.split()
print(str, end=", ") Will throw an error O ['Pomodoro'] ('P', 'm', 'd', 'o'] ('Pomodoro', 'modoro', 'doro', 'ro'] Correct! The first time split() function is used, the str variable will convert into a list over which split() cannot be used and will give an error.

- yellow
- O blue
- O green
- O red

⊘ Correct

Correct! The color variable will retain the value from the nonlocal variable from e()

10. Find the output of the code below: 1/1 point num = 9 class Car: 2 3 num = 5 bathrooms = 2 4 5 def cost_evaluation(num): num = 10 8 return num class Bike(): 10 11 num = 11 12 cost_evaluation(num) 13 14 car = Car()15 bike = Bike() car.num = 7 Car.num = 2 16 17 18 print(num) O 5 O 2 9 O 10 Correct! The value of the global variable will remain unchanged. 11. Which of the following is the correct implementation that will return True if there is a parent class P, with an 1/1 point object p and a sub-class called C, with an object c? \bigcirc print(issubclass(C,c)) \bigcirc print(issubclass(p,C)) \bigcirc print(issubclass(P,C)) print(issubclass(C,P)) Correct! It can be read as C is sub-class of P.

12. Django is a type of:	1/1 point
 Full-stack framework Micro-framework Asynchronous framework Correct Correct! Django is a Full-stack framework. 	
13. Which of the following is not true about Integration testing: Primarily dealt by the tester. It combines unit tests. It is where the application is tested as a whole. Tests the flow of data from one component to another. Correct Correct! This is the case with system testing.	1/1 point
 14. While using pytest for testing, it is necessary to run the file containing the main code before we can run the testing file containing our unit tests. False True Correct Correct! The main file must be saved to keep it updated but it is not required to be executed. We have to import it into our testing file. 	1/1 point

15. What will be the output of the code below:

```
point
    class A:
      def a(self):
2
     return "Function inside A"
3
5
    class B:
    def a(self):
| return "Function inside B"
6
8
   class C:
9
10
    pass
11
12 class D(C, A, B):
13
    pass
14
15 d = D()
16 print(d.a())
```

1/1

- Function inside A
- O Function inside B
- O None of the above
- O No output
- **⊘** Correct

Correct! The class A comes before class B in terms of the parent classes of class D.