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Python Institute PCEP-30-02 Exam Syllabus Topics:

Topic	Details
Topic 1	• Functions and Exceptions: This part of the exam covers the definition of function and invocation
Topic 2	• Data Collections: In this section, the focus is on list construction, indexing, slicing, methods, and comprehensions; it covers Tuples, Dictionaries, and Strings.
Topic 3	• Computer Programming Fundamentals: This section of the exam covers fundamental concepts such as interpreters, compilers, syntax, and semantics. It covers Python basics: keywords, instructions, indentation, comments in addition to Booleans, integers, floats, strings, and Variables, and naming conventions. Finally, it covers arithmetic, string, assignment, bitwise, Boolean, relational, and Input • output operations.
Topic 4	• parameters, arguments, and scopes. It also covers Recursion, Exception hierarchy, Exception handling, etc.
Topic 5	• Control Flow: This section covers conditional statements such as if, if-else, if-elif, if-elif-else

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Python Institute PCEP - Certified Entry-Level Python Programmer Sample Questions (Q35-Q40):

NEW QUESTION # 35
What is true about tuples? (Select two answers.)

- A. The len { } function cannot be applied to tuples.
- B. Tuples are immutable, which means that their contents cannot be changed during their lifetime.
- C. Tuples can be indexed and sliced like lists.
- D. An empty tuple is written as { } .

Answer: B,C

Explanation:
Explanation
Tuples are one of the built-in data types in Python that are used to store collections of data. Tuples have some characteristics that distinguish them from other data types, such as lists, sets, and dictionaries. Some of these characteristics are:
Tuples are immutable, which means that their contents cannot be changed during their lifetime. Once a tuple is created, it cannot be modified, added, or removed. This makes tuples more stable and reliable than mutable data types. However, this also means that tuples are less flexible and dynamic than mutable data types. For example, if you want to change an element in a tuple, you have to create a new tuple with the modified element and assign it to the same variable12 Tuples are ordered, which means that the items in a tuple have a defined order and can be accessed by using their index. The index of a tuple starts from 0 for the first item and goes up to the length of the tuple minus one for the last item. The index can also be negative, in which case it counts from the end of the tuple. For example, if you have a tuple t = ("a", "b", "c"), then t[0] returns "a", and t[-1] returns "c"12 Tuples can be indexed and sliced like lists, which means that you can get a single item or a sublist of a tuple by using square brackets and specifying the start and end index. For example, if you have a tuple t
= ("a", "b", "c", "d", "e"), then t[2] returns "c", and t[1:4] returns ("b", "c", "d"). Slicing does not raise any exception, even if the start or end index is out of range. It will just return an empty tuple or the closest possible sublist12 Tuples can contain any data type, such as strings, numbers, booleans, lists, sets, dictionaries, or even other tuples. Tuples can also have duplicate values, which means that the same item can appear more than once in a tuple. For example, you can have a tuple t = (1, 2, 3, 1, 2), which contains two 1s and two
2s12
Tuples are written with round brackets, which means that you have to enclose the items in a tuple with parentheses. For example, you can create a tuple t = ("a", "b", "c") by using round brackets. However, you can also create a tuple without using round brackets, by just separating the items with commas. For example, you can create the same tuple t = "a", "b", "c" by using commas. This is called tuple packing, and it allows you to assign multiple values to a single variable12 The len() function can be applied to tuples, which means that you can get the number of items in a tuple by using the len() function. For example, if you have a tuple t = ("a", "b", "c"), then len(t) returns 312 An empty tuple is written as (), which means that you have to use an empty pair of parentheses to create a tuple with no items. For example, you can create an empty tuple t = () by using empty parentheses.
However, if you want to create a tuple with only one item, you have to add a comma after the item, otherwise Python will not recognize it as a tuple. For example, you can create a tuple with one item t = ("a",) by using a comma12 Therefore, the correct answers are A.
Tuples are immutable, which means that their contents cannot be changed during their lifetime. and D. Tuples can be indexed and sliced like lists.

NEW QUESTION # 36

What is the expected output of the following code?

- A. ppt
- B. The code is erroneous and cannot be run.
- C. pizzapastafolpetti
- D. 0

Answer: A

Explanation:
The code snippet that you have sent is using the slicing operation to get parts of a string and concatenate them together. The code is as follows:
pizza = "pizza" pasta = "pasta" folpetti = "folpetti" print(pizza[0] + pasta[0] + folpetti[0]) The code starts with assigning the strings "pizza", "pasta", and "folpetti" to the variables pizza, pasta, and folpetti respectively. Then, it uses the print function to display the result of concatenating the first characters of each string. The first character of a string can be accessed by using the index 0 inside square brackets. For example, pizza[0] returns "p". The concatenation operation is used to join two or more strings together by using the + operator. For example, "a" + "b" returns "ab". The code prints the result of pizza[0] + pasta[0] + folpetti[0], which is "p" + "p" + "f", which is "ppt".
The expected output of the code is ppt, because the code prints the first characters of each string. Therefore, the correct answer is B. ppt.
Reference: Python String Slicing - W3SchoolsPython String Concatenation - W3Schools

NEW QUESTION # 37
Which of the following expressions evaluate to a non-zero result? (Select two answers.)

- A. 1 * 4 // 2 ** 3
- B. 4 / 2 * * 3 - 2
- C. 2 ** 3 / A - 2
- D. 1 * * 3 / 4 - 1

Answer: B,C

Explanation:
In Python, the ** operator is used for exponentiation, the / operator is used for floating-point division, and the // operator is used for integer division. The order of operations is parentheses, exponentiation, multiplication /division, and addition/subtraction. Therefore, the expressions can be evaluated as follows:
A). 2 ** 3 / A - 2 = 8 / A - 2 (assuming A is a variable that is not zero or undefined) B. 4 / 2 * * 3 - 2 = 4 / 8 - 2 = 0.5 - 2 = -1.5 C. 1 * * 3 / 4 - 1 = 1 / 4 - 1 = 0.25 - 1 = -0.75 D. 1 * 4 // 2 ** 3 = 4 // 8 = 0 Only expressions A and B evaluate to non-zero results.
Reference: [Python Institute - Entry-Level Python Programmer Certification]

NEW QUESTION # 38
What is the expected result of the following code?

- A. 0
- B. 1
- C. The code is erroneous and cannot be run.
- D. 2

Answer: C

Explanation:
The code snippet that you have sent is trying to use the global keyword to access and modify a global variable inside a function. The code is as follows:
speed = 10 def velocity(): global speed speed = speed + 10 return speed print(velocity()) The code starts with creating a global variable called "speed" and assigning it the value 10. A global variable is a variable that is defined outside any function and can be accessed by any part of the code. Then, the code defines a function called "velocity" that takes no parameters and returns the value of "speed" after adding 10 to it. Inside the function, the code uses the global keyword to declare that it wants to use the global variable

"speed", not a local one. A local variable is a variable that is defined inside a function and can only be accessed by that function. The global keyword allows the function to modify the global variable, not just read it. Then, the code adds 10 to the value of "speed" and returns it. Finally, the code calls the function "velocity" and prints the result.
However, the code has a problem. The problem is that the code uses the global keyword inside the function, but not outside. The global keyword is only needed when you want to modify a global variable inside a function, not when you want to create or access it outside a function. If you use the global keyword outside a function, you will get a SyntaxError exception, which is an error that occurs when the code does not follow the rules of the Python language. The code does not handle the exception, and therefore it will terminate with an error message.
The expected result of the code is an unhandled exception, because the code uses the global keyword incorrectly. Therefore, the correct answer is A. The code is erroneous and cannot be run.
Reference: Python Global Keyword - W3SchoolsPython Exceptions: An Introduction - Real Python The code is erroneous because it is trying to call the "velocity" function without passing any parameter, which will raise a TypeError exception. The "velocity" function requires one parameter "x", which is used to calculate the return value of "speed" multiplied by "x". If no parameter is passed, the function will not know what value to use for "x".
The code is also erroneous because it is trying to use the "new_speed" variable before it is defined. The "new_speed" variable is assigned the value of 20 after the first function call, but it is used as a parameter for the second function call, which will raise a NameError exception. The variable should be defined before it is used in any expression or function call.
Therefore, the code will not run and will not produce any output.
The correct way to write the code would be:
```
# Define the speed variable
speed = 10
# Define the velocity function
def velocity(x):
return speed * x
# Define the new_speed variable
new_speed = 20
# Call the velocity function with new_speed as a parameter
print(velocity(new_speed))
```
Copy
This code will print 200, which is the result of 10 multiplied by 20.
References:
[Python Programmer Certification (PCPP) - Level 1]
[Python Programmer Certification (PCPP) - Level 2]
[Python Programmer Certification (PCPP) - Level 3]
[Python: Built-in Exceptions]
[Python: Defining Functions]
[Python: More on Variables and Printing]

NEW QUESTION # 39
How many hashes (+) does the code output to the screen?

- A. five
- B. zero (the code outputs nothing)
- C. three
- D. one

Answer: A

Explanation:
Explanation
The code snippet that you have sent is a loop that checks if a variable "floor" is less than or equal to 0 and prints a string accordingly. The code is as follows:
floor = 5 while floor > 0: print("+") floor = floor - 1
The code starts with assigning the value 5 to the variable "floor". Then, it enters a while loop that repeats as long as the condition "floor > 0" is true. Inside the loop, the code prints a "+" symbol to the screen, and then subtracts 1 from the value of "floor". The loop ends when "floor" becomes 0 or negative, and the code exits.
The code outputs five "+" symbols to the screen, one for each iteration of the loop. Therefore, the correct answer is C. five.

NEW QUESTION # 40

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