ITM- 413/513 *Quick Review 2* (Chapters 3-4)

1. What is the result of the following Boolean expression, if x equals 5, y equals 3, and z equals 8?

not (x < y or z > x) and y < z

|  |  |
| --- | --- |
| a. | true |
| b. | false |
| c. | 8 |
| d. | 5 |

2. What are the values that the variable *num* contains through the iterations of the following **for** loop?

for num in range(2, 9, 2)

|  |  |
| --- | --- |
| a. | 2, 3, 4, 5, 6, 7, 8, 9 |
| b. | 2, 5, 8 |
| c. | 2, 4, 6, 8 |
| d. | 1, 3, 5, 7, 9 |

3. The first input operation is called the \_\_\_\_\_, and its purpose is to get the first input value that will be tested by the validation loop.

|  |  |
| --- | --- |
| a. | priming read |
| b. | first input |
| c. | loop set read |
| d. | loop validation |

4. if x = 1, y=2 what would print given the following statement, given C is a true value?

print(x if C else y)

5. To quit the Python shell, you can either select the window’s close box or press the \_\_\_\_ key combination.

a. Control + C b. Control + Z

c. Control + D d. Control + X

6. In Python, you can write a print statement that includes two or more expressions separated by \_\_\_\_.

a. periods b. colons

c. commas d. semicolons

7. The result of evaluating 45 % 0 is \_\_\_\_ .

a. 0 b. 45

c. 1 d. an error

8. A(n) \_\_\_\_ function is a function with the same name as the data type to which it converts.

a. semantic b. casting

c. abstraction d. type conversion

9. Mix and Match

Match loop types on the left with appropriate descriptions listed on the right by placing a,b or c next to the matching loop type choice.

|  |  |  |
| --- | --- | --- |
| **Loop Types** |  | **Descriptions** |
| **\_\_\_ nested loops** | a. | Repeats a statement or group of statements while a given condition is TRUE. It tests the condition before executing the loop body. |
| **\_\_\_ for loop** | b. | Executes a sequence of statements multiple times and abbreviates the code that manages the loop variable. |
| **\_\_\_ while loop** | c. | You can use one or more loop inside any another while, for or do..while loop. |

10. Mix and Match

Match statements on the left with definitions listed on the right by placing a,b or c next to the matching statement choice.

|  |  |  |
| --- | --- | --- |
| **Statement choices** |  | **Definitions** |
| **\_\_\_ Pass statement** | a. | Terminates the loop statement and transfers execution to the statement immediately following the loop. |
| **\_\_\_ Break statement** | b. | Causes the loop to skip the remainder of its body and immediately retest its condition prior to reiterating. |
| **\_\_\_ Continue statement** | c. | The pass statement in Python is used when a statement is required syntactically but you do not want any command or code to execute. |

11. Name 4 built-in Python conversion type functions.

12. Name at least 5 built-in functions.

13. Name at least 6 Python keywords.

14. What is the purpose of a sentinal value.