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

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) **result is 1**

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** |
| **\_c\_ 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. |
| **\_b\_ for loop** | b. | Executes a sequence of statements multiple times and abbreviates the code that manages the loop variable. |
| **\_a\_ 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** |
| **\_c\_\_ Pass statement** | a. | Terminates the loop statement and transfers execution to the statement immediately following the loop. |
| **\_a\_\_ Break statement** | b. | Causes the loop to skip the remainder of its body and immediately retest its condition prior to reiterating. |
| **\_b\_\_ 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

**str(), float(), bool(), int()**

12. Name at least 5 built-in functions

**input(), print(), round(), ord(), chr()**

13. Name at least 6 Python keywords

**if else elif while except finally**

14. What is the purpose of a sentinal value

**special value that marks the end of a sequence of items (terminates loop!)**