

## MID-TERM Exam Review: Chapters 1 to 5 (Canvas Modules 3-7)

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### MID-TERM EXAM DETAILS BELOW:

- Your MID-TERM Exam will be **similar to Canvas Quizzes**.
- I suggest that you **review the canvas quizzes multiple times**. Some questions will be exactly as they appear in the quiz, and some will have minor changes (numbers, etc.). Also, practice **Revel quizzes** and **self-check questions** (**REPETITION IS THE KEY!** and **PRACTICE MAKES IT PERFECT!!**)
- Your exam will consist of **50 objective questions** (including multiple choice, multiple answers, true/false, matching, etc.).
- You will **require LDB** to open the exam.
- You will have **100 minutes (1 hour 40 mins)** to complete the exam.
- You will have only **ONE attempt** to complete the exam.

Below are some questions to practice (**Answer Key is in the next link within this module**):

- 1 What will be displayed after the following code is executed?

```
total = 0
for count in range(1,3):
    total += count
print(total, end=' ')
```

- a. 3 1
- b. 1 3
- c. 4
- d. 0 1 2 3

- 2 How many iterations will this loop go through?

```
end = 10
for number in range(1, end+1):
    print (number)
```

- a. 10
- b. 9
- c. 11
- d. 0
- e. infinite

- 3 Match the following code fragments to what it prints on the console?

- |  |                                |
|--|--------------------------------|
| i.   for num in range(5):<br>print (num)       | A. prints 1 to 4 vertically    |
| ii.   for num in range(1,5):<br>print (num)    | B. prints 0 to 4 vertically    |
| iii.   for num in range(1,5,2):<br>print (num) | C. prints 1 3 and 5 vertically |

- iv.    `for num in range(1,6,2):`                      D. prints 1 and 3 vertically  
       `print (num)`

4 Match the following code fragments to what it displays?

- i.    `count = 0`    A. displays 4 vertically  
      `while count < 10:`  
          `print(count)`  
      `count = count + 5`
- ii.   `x = 1`    B. displays 2 3 4 vertically  
      `y = 3`  
      `while x <= y:`  
          `x += 1`  
      `print (x)`
- iii.   `x = 1`     C. displays 0 infinitely  
      `y = 3`  
      `while x <= y:`  
          `x += 1`  
          `print(x)`

5 What will the following code fragment display?

```
x = 5
y = 7
while x < y:
    print (x, x * x)
    x += 1
```

- a. 5 25  
b. 7 49  
c. 6 36  
d. 5 25  
   6 36

6 What will the following code fragment display?

```
x = 5
y = 30
while x < y:
    print (x * x)
```

- a. 25  
b. prints 5 infinitely  
c. prints 25 infinitely  
d. 30

7 What will the following code fragment display?

```
for columns in range(5):
    print("*", end='')
```

- a. prints \* 5 times horizontally
- b. prints \* 4 times horizontally
- c. prints \* 5 times vertically
- d. prints \* 4 times vertically

8 What will the following for loop code fragment display?

```
for i in range(4):  
    print(i, end=' ')
```

- a. 0 1 2 3 4
- b. 0 1 2 3
- c. 1 2 3 4
- d. 1 2 3 4 5

9 What will the nested for loop code fragment display?

```
for row in range(1):  
    for col in range(2):  
        print("$")  
    print()
```

- a. \$
- b. \$\$
- c. \$\$\$
- d. \$  
\$

10 Suppose `str1 = "1436"` and `str2 = "cosc"` what will the following code fragment display?

```
if str1 < str2:  
    temp = str1  
    str1 = str2  
    str2 = temp  
print(str1.upper()+str2)
```

- a. cosc1436
- b. 1436cosc
- c. COSC1436
- d. 1436COSC

11 What will the following code fragment display?

```
print(round(8.5), end=' ')  
print(format(8.5, ".2f"))
```

- a. 8 8.50
- b. 8.5 8
- c. 8.50 8.50
- d. 8 8

12 `import _____` statement is required to use the methods like: `sqrt`, `hypot`, `ceil`, `floor`, etc.

- a. number
- b. random
- c. math
- d. format

13 What will the following code fragment display?

```
age = 60
if age >= 1:
    result = "Children"
elif age > 12:
    result = "Teenagers"
elif value > 19:
    result = "Adults"
elif value >= 60:
    result = "Seniors"
else:
    result = "Invalid"
print(result)
```

- a. Adults
- b. Teenagers
- c. Children
- d. Invalid
- e. Seniors

14 Assume num1, num2, num3 are assigned with values, the following code fragment will display the lowest of the 3 numbers [True/False]?

```
result = num1
if num2 < num1:
    result = num2
if num3 < num1:
    result = num3
print(result)
```

- a. True
- b. False

15 Python line comments are preceded by @ symbol [True/False]?

- a. True
- b. False

16 Match the following terms to definitions:

- |                          |  |
|--------------------------|--|
| i. Machine language      | A. also called as source code is English-like and easy to learn and program. |
| ii. Assembly language    | B. is a set of primitive instructions built into every computer.             |
| iii. High-level language | C. is a low-level language that uses mnemonic to represent instruction.      |

17 Which Python statement assigns the product of 5 and 2 to the variable answer?

- a. `answer = 5 prod 2`
- b. `answer = 5 ** 2`
- c. `5 * 2 = answer`
- d. `answer = 5 · 2`
- e. `answer = 5 * 2`

18 Which of the following is an illegal variable name?

- a. `4gpa`
- b. `gpa4`
- c. `gpa4_0`
- d. `GPA4`
- e. `_4gpa`

19 Which of the following is the correct if clause to determine whether y is in the range 10 through 100 (both numbers inclusive)?

- a. `if y >= 100 and y <= 1:`
- b. `if y > 10 and y < 100:`
- c. `if y >= 10 and y <= 100:`
- d. `if y >= 10 or y <= 100:`

20 What is the result of the following Boolean expression, given that `x = 5`, `y = 3`, and `z = 8`?

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

- a. True
- b. False
- c. 8
- d. 5
- e. 3

**Answer Key is in the next link within this module**