

Name: \_\_\_\_\_ Section: 1 2 3 4

1 = Mutchler, 1<sup>st</sup>-2<sup>nd</sup> periods. 2 = Mutchler, 3<sup>rd</sup>-4<sup>th</sup> periods. 3 = Anderson, 7<sup>th</sup>-8<sup>th</sup> periods. 4 = Anderson, 9<sup>th</sup>-10<sup>th</sup> periods.

Use this quiz to help make sure you understand the videos/reading. **Answer all questions.** Make additional notes as desired. **Not sure of an answer?** Ask your instructor to explain in class and revise as needed then. **Please print two-sided.**

Throughout, where you are asked to “circle your choice”, you can underline or circle it (whichever you prefer).

**Textbook Reading: Sections 8.2 and 8.3.2 – Dictionaries** (pages 414 – 424, 427-430)

1. Show two different Python syntaxes for creating an empty dictionary and assigning it to variable d.
  - a)
  - b)
2. Write a single Python statement that assigns to the variable `roman_numerals` a dictionary whose keys are I, V, X, L, C, D, and M, and whose corresponding values are the numeric values of these Roman numerals.
3. Suppose that the following code has been executed. Write the implementation of the `month_length` function that returns the length of the provided month. Hint: Use `get`.

```
month_lens = {'feb' : 28, 'apr' : 30, 'jun' : 30, 'sep' : 30, 'nov' : 30 }
```

Example use of your function:

```
print(month_length('jan', month_lens), month_length('feb', month_lens))
```

should print **31 28**.

```
def month_length(month_to_find, lens_of_special_months):  
    """ You are to write the implementation of this function """
```

4. Suppose that the following code has been executed. Write code that uses a loop to create a dictionary `month_numbers` that associates each month-name key with the number of that month. I.e., the value of `month_numbers['feb']` should be 2.

```
month_names = ['jan', 'feb', 'mar', 'apr', 'may', 'jun', 'jul', 'aug', \
               'sep', 'oct', 'nov', 'dec']
```

5. Suppose that the code below has been executed. Write code that uses the `spouses` dictionary and creates an alphabetical list of the names of all professors from the dictionary whose spouses have names that are at least five letters long.

```
spouses = {'David': 'Sandy', 'Michael': 'Amy', 'Matt': 'Leah',  
          'Claude': 'Diane', 'Shawn': 'Ruth', 'Cary': 'Norma',  
          'DeLvin': 'Donna'}
```

6. Suppose that the code below has already been executed. Write a single line of code that prints the number of course sections that David is teaching (it should use the `teaching_load` dictionary).

```
teaching_load = {'Claude': ['csse120-03', 'csse120-04'],  
                'Matt': ['csse230-01', 'csse490-01'],  
                'David': ['csse120-01', 'csse120-02', 'csse290-01', 'csse490-02', 'csse491-01'],  
                'Cary': ['csse241-01', 'csse487-01']}
```