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1. In Python, what data structure helps store and manipulate an ordered collection of items?

    1 / 1 point

    ◉ List

    ○ Set

    ○ Dictionary

    ○ Tuple

    ✓ **Correct**

2. A data professional is working with a list named `cities` that contains data on global cities. The string `'Houston'` is the third element in the list. What Python code can they use to remove the string `'Houston'` from the list?

    1 / 1 point

    ○ `cities.pop(3)`

    ◉ `cities.pop(2)`

    ○ `cities.pop(1)`

    ○ `cities.pop(4)`

    ✓ **Correct**

3. Which of the following statements accurately describe Python tuples? Select all that apply.

    0.75 / 1 point

    ☑ Tuples can be split into separate variables.

    ✓ **Correct**

    ☐ Tuples cannot be split into separate variables.

    ☐ Tuples are sequences.

    ☑ Tuples are immutable.

    ✓ **Correct**

    You didn't select all the correct answers

4. Which of the following statements accurately describe Python dictionaries? Select all that apply.

    1 / 1 point

    ☑ Dictionaries consist of collections of key-value pairs.

    ✓ **Correct**

    ☐ Dictionaries are instantiated with quotation marks.

    ☐ Dictionaries consist of string-tuple pairs.

    ☑ Dictionaries are instantiated with the `dict()` function.

    ✓ **Correct**

5. A data professional is working with a dictionary named `employees` that contains employee data for a healthcare company. What Python code can they use to retrieve only the dictionary's values?

    1 / 1 point

    ◉ `employees.values()`

    ○ `employees.items()`

    ○ `values.employees()`

○ `items.employees()`

✓ **Correct**

6. A data professional is working with two Python sets. What function can they use to find elements from both sets that are mutually not present in the other?

    1 / 1 point

○ `intersection()`

⦿ `symmetric_difference()`

○ `difference()`

○ `union()`

✓ **Correct**

7. How do global variables differ from other variables in Python? Select all that apply.

    0.5 / 1 point

☑ Global variables cannot be accessed from a program.

    ⊗ **This should not be selected**
        Review the video about libraries, packages, and modules. ↗

☑ Global variables can be accessed from anywhere in a script.

    ✓ **Correct**

☐ Global variables can be accessed from anywhere in a program.

☐ Global variables cannot be accessed from a script.

8. Fill in the blank: A _____ NumPy array can be created from a list of lists, where each internal list is the same length.

    1 / 1 point

○ four-dimensional

⦿ two-dimensional

○ one-dimensional

○ three-dimensional

✓ **Correct**

9. A data professional is working with a pandas dataframe named `sales` that contains sales data for a retail website. They want to know the price of the least expensive item. What code can they use to calculate the minimum value of the `Price` column?

    1 / 1 point

○ `sales.min().Price`

⦿ `sales['Price'].min()`

○ `sales.min().(Price)`

○ `sales = 'Price'.min()`

✓ **Correct**

10. A data professional is working with a pandas dataframe. They want to select a subset of rows and columns by index. What method can they use to do so?

    1 / 1 point

⦿ `iloc[]`

○ `loc[]`

○ `merge()`

○ `concat()`

✓ **Correct**

11. A data professional wants to merge two pandas dataframes. They want to join the data so only the keys that are in

    1 / 1 point

both dataframes get included in the merge. What technique can they use to do so?

○ Outer join

○ Right join

◉ Inner join

○ Left join

✓ **Correct**