

1. How are Python dictionaries different from Python lists? 1 point

- ☒ Python lists are indexed using integers and dictionaries can use strings as indexes
- ☐ Python dictionaries are a collection and lists are not a collection
- ☐ Python lists store multiple values and dictionaries store a single value
- ☐ Python lists can store strings and dictionaries can only store words

2. What is a term commonly used to describe the Python dictionary feature in other programming languages? 1 point

- ☒ Associative arrays
- ☐ Closures
- ☐ Lambdas
- ☐ Sequences

3.What would the following Python code print out? 1 point

```
1 stuff = dict()
2 print(stuff['candy'])
```

- ☐ -1
- ☒ The program would fail with a traceback
- ☐ candy
- ☐ 0

4.What would the following Python code print out? 1 point

```
1 stuff = dict()
2 print(stuff.get('candy',-1))
```

- ☐ 'candy'
- ☐ The program would fail with a traceback
- ☐ 0
- ☒ -1

5. What is a common use of Python dictionaries in a program? 1 point

- ☐ Building a histogram counting the occurrences of various strings in a file
- ☒ Splitting a line of input into words using a space as a delimiter
- ☐ Sorting a list of names into alphabetical order
- ☐ Computing an average of a set of numbers

6.Which of the following lines of Python is equivalent to the following sequence of statements assuming that **counts** is a dictionary? 1 point

```
1 if key in counts:
2     counts[key] = counts[key] + 1
3 else:
4     counts[key] = 1
```

- ☐ counts[key] = key + 1
- ☐ counts[key] = (counts[key] \* 1) + 1
- ☐ counts[key] = counts.get(key,-1) + 1
- ☒ counts[key] = counts.get(key,0) + 1
- ☐ counts[key] = (key in counts) + 1

7.In the following Python, what does the **for** loop iterate through? 1 point

```
1 x = dict()
2 ...
3 for y in x :
4     ...
```

- ☐ It loops through all of the dictionaries in the program
- ☐ It loops through the integers in the range from zero through the length of the dictionary
- ☐ It loops through the values in the dictionary
- ☒ It loops through the keys in the dictionary

8. Which method in a dictionary object gives you a list of the values in the dictionary? 1 point

- ☐ each()
- ☐ keys()
- ☐ items()
- ☒ values()
- ☐ all()

9. What is the purpose of the second parameter of the **get()** method for Python dictionaries? 1 point

- ☐ The value to retrieve
- ☒ To provide a default value if the key is not found
- ☐ An alternate key to use if the first key cannot be found
- ☐ The key to retrieve

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