## CSPP Week - 15

Time: 1 Hour Score: 40 Points

1. Trace the output of the below code and explain the result of each print() statement.

```
my_string = "Welcome to Python"
print(my_string[3:10])
print(my_string[:7])
print(my_string[-6:])
print(my_string[::2])
```

2. Given the following string, what will the given expressions output? Justify your answer.

```
text = "Programming is fun!"
3 * 1 = 3 Points
a. text.upper()
b. text.find('is')
c. text.replace('fun', 'awesome')
```

3. Consider the string, what will the given expressions output? Justify your answer.

```
word = "hello world"
a. word[::-1]
b. word[0:5]
c. word[-6:]
```

4. Given the list numbers, trace the given code, predict the output, and justify your answer.

5. Consider the following list, what will the given expressions output? Justify your answer.

6. Given the list, what will the given expressions output? Justify your answer.

```
my_list = [5, 2, 8, 1, 3, 7]
    a. my_list.sort()
    b. my_list.reverse()
    c. print(my_list)
```

7. Consider the dictionary, predict the output of the given code and justify your answer my\_dict = {"name": "John", "age": 25, "city": "New York"} print(my\_dict["name"]) print(my\_dict.pop("age")) 4 \* 1 = 4 Points print(my\_dict.keys()) print(my\_dict.values()) 8. Given the dictionary, what will the given expressions output? Justify your answer. students = {"Alice": 85, "Bob": 92, "Charlie": 88, "David": 79} a. students["Eve"] = 95 b. students["Charlie"] = 99 3 \* 1 = 3 Pointsc. print(students) 9. Consider the dictionary, what will the given expressions output? Justify your answer. scores = {"math": 90, "science": 85, "english": 88} a. scores["math"] -= 20 b. scores["english"] -= 20 3 \* 1 = 3 Pointsc. print("english" in scores) 10. Given the following code, trace and explain the output. 3 Points for i in range(3, 8): if i % 2 == 0: print(i) 11. Given the following code, trace and explain the output. 4 Points numbers = [1, 2, 3, 4, 5]total = 0for num in numbers: total += num print(total) 12. Given the following code, trace and explain the output. 3 Points words = ["cat", "dog", "elephant", "tiger"] for word in words: print(word, len(word))