Week One Quiz

91.66%

1.Question 1

Python is an example of an

◉

Interpreted language

○

Declarative language

○

Operating system language

○

Data science language

○

Low level language

Correct

This material was covered in the "Python Functions" lecture.

1 / 1 point

2.Question 2

Data Science is a

○

Branch of statistics

○

Branch of computer science

○

Branch of artificial intelligence

◉

Interdisciplinary, made up of all of the above

Correct

This material was covered in the "Data Science" lecture.

3.Question 3

Data visualization is not a part of data science.

○

True

◉

False

Correct

This material was covered in the "Data Science" lecture.

4.Question 4

Which bracketing style does Python use for tuples?

○

{ }

◉

( )

○

[ ]

Correct

This material was covered in the "Python Types and Sequences" lecture.

5.Question 5

In Python, strings are considered Mutable, and can be changed.

◉

False

○

True

Correct

This material was covered in the "Python More on Strings" lecture.

1 / 1 point

6.Question 6

What is the result of the following code: ['a', 'b', 'c'] + [1, 2, 3]

⦿

['a', 'b', 'c', 1, 2, 3]

○

TypeError: Cannot convert list(int) to list(str)

○

['a1', 'b2', 'c3']

○

[['a', 'b', 'c'], [1, 2, 3]]

Correct

This material was covered in the "Python Types and Sequences" lecture.

1 / 1 point

7.Question 7

String slicing is

○

A way to make string mutable in python

○

A way to reduce the size on disk of strings in python

⦿

A way to make a substring of a string in python

Correct

This material was covered in the "Python More on Strings" lecture.

1 / 1 point

8.Question 8

When you create a lambda, what type is returned? E.g. type(lambda x: x+1) returns

◉

<class 'function'>

○

<class 'type'>

○

<class 'int'>

○

<class 'lambda'>

Correct

This material was covered in the "Advanced Python Lambda and List Comprehensions" lecture.

1 / 1 point

9.Question 9

The epoch refers to

○

January 1, year 0

◉

January 1, year 1970

○

January 1, year 1980

○

January 1, year 2000

Correct

This material was covered in the "Python Dates and Times" lecture.

1 / 1 point

10.Question 10

This code, [x2 for x in range(10)] , is an example of a**

○

List comprehension

○

Sequence comprehension

◉

Tuple comprehension

○

List multiplication

0 / 1 point

11.Question 11

Given a 6x6 NumPy array r, which of the following options would slice the shaded elements?

0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35

◉

```
r.reshape(36)[::7]
```

○

```
r[0:6,::-7]
```

○

```
r[::7]
```

```
r[:,::7]
```

Correct

You could also use np.diag(r). This material was covered in "Advanced Python Demonstration: The Numerical Python Library (NumPy)"
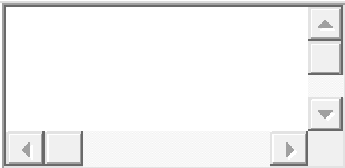
1 / 1 point

12.Question 12

Given a 6x6 NumPy array r, which of the following options would slice the shaded elements?

0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35

```
                                                                    2
r[[2,3],[2,3]]
```

○

```
                                                                    1

                                                                    2
r[::2,::2]
```

○

```
                                                                    1

                                                                    2
r[2::2,2::2]
```

◉

```
                                                                    1

                                                                    2
r[2:4,2:4]
```
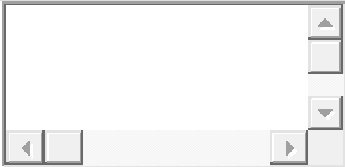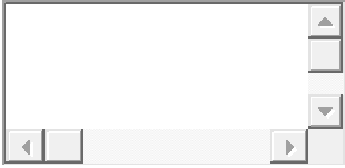
Correct

This material was covered in "Advanced Python Demonstration: The Numerical Python Library (NumPy)"