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1. When slicing in Python what does the “0” in this statement [0:2] specify?

1 / 1 point

- ☒ It specifies the position to start the slice
- ☐ It specifies the position to end the slice
- ☐ It specifies the step of the slicing

✓ Correct

2. In Python, if you executed `var = '01234567'`, what would be the result of `print(var[::-2])`?

1 / 1 point

- ☐ 1357
- ☐ 1234567
- ☒ 0246

✓ Correct

3. What is the Python `find()` method used for?

1 / 1 point

- ☐ The method finds every second index of a substring
- ☒ The method finds the starting index of a substring
- ☐ The method finds the ending index of a substring

✓ Correct

4. In Python what represents real numbers and is written with a decimal point?

1 / 1 point

- ☒ float
- ☐ int
- ☐ str

✓ Correct

5. What is the result of the following code segment: `int(3.99)`

1 / 1 point

- ☐ 4
- ☐ 3.99
- ☒ 3

✓ Correct

6. What following code segment would produce an output of “0.5”?

1 / 1 point

- ☒ 1/2
- ☐ 1//2

✓ Correct

7. In Python 3 what does regular division always result in?

1 / 1 point

- ☒ Float
- ☐ .

☐ Int

✓ Correct

8. A dictionary must have what type of keys?

1 / 1 point

- ☐ Not changeable
- ☒ Unique
- ☐ Duplicate

✓ Correct

9. What is a tuple?

1 / 1 point

- ☐ A collection that is ordered and changeable
- ☒ A collection that is ordered and unchangeable
- ☐ A collection that is unordered and changeable

✓ Correct

10. What does the split() method return from a list of words?

1 / 1 point

- ☐ The list in one long string
- ☐ The list of words separated by a colon
- ☒ The list of words in a string separated by a delimiter
- ☐ The list of words in reverse order

✓ Correct

11. Tuples are:

1 / 1 point

- ☐ Unordered
- ☒ Not mutable
- ☐ Mutable
- ☐ Not indexed

✓ Correct

12. How do you cast the list **A** to the set **a**?

1 / 1 point

- ☒ a=set(A)
- ☐ a=A.dict()
- ☐ a.set()

✓ Correct

13. What value of x will produce the following output?

1 / 1 point

How are you?

```
1 x=
2 if(x!=1):
3     print('How are you?')
4 else:
5     print('Hi')
```

- ☒ x=6
- ☐ x=1
- ☐ x="7"

✓ Correct

14. Why is the “finally” statement used?

1 / 1 point

- ☐ Only execute the remaining code if one condition is false
- ☐ Only execute the remaining code if no errors occur
- ☐ Only execute the remaining code if an error occurs
- ☒ Execute the remaining code no matter the end result

✓ Correct

15. Given the function add shown below, what does the following return?

1 / 1 point

```
def add(x): return(x+x) add('1')
```

- ☐ '2'
- ☒ '11'
- ☐ 2

✓ Correct

16. What method organizes the elements in a given list in a specific descending or ascending order?

1 / 1 point

- ☒ sort()
- ☐ join()
- ☐ split()
- ☐ replace()

✓ Correct

17. What segment of code would output the following?

1 / 1 point

- 11
- 22
- 33
- ☐ A=[1,2,3] for a in A: print(2*a)
- ☐ A=['1','2','3'] for a in A: print(3*a)
- ☒ A=['1','2','3'] for a in A: print(2*a)

✓ Correct

18. What is the output of the following?

1 / 1 point

```
for i in range(1,5): if (i!=2): print(i)
```

- ☐ 2
- ☐ 1
- 2
- 3
- 4
- ☒ 1
- 3
- 4

✓ Correct

19. What is the height of the rectangle in the class Rectangle?

1 / 1 point

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1 / 1 point

```
class Rectangle(object):
    def __init__(self,width=2,height=3,color='r'):
        self.height=height
        self.width=width
        self.color=color
    def drawRectangle(self):
        import matplotlib.pyplot as plt
        plt.gca().add_patch(plt.Rectangle((0, 0),self.width, self.height ,fc=self.color))
        plt.axis('scaled')
        plt.show()
```

- ☒ 3
- ☐ 2
- ☐ 0

✓ Correct

20. What line of code would produce the following: `array([0, 0, 0, 0, 0])` ?

1 / 1 point

- ☐ `a=np.array([0,1,0,1,0]) b=np.array([1,0,1,0,1]) a-b`
- ☐ `a=np.array([0,1,0,1,0]) b=np.array([1,0,1,0,1]) a+b`
- ☒ `a=np.array([0,1,0,1,0]) b=np.array([1,0,1,0,1]) a*b`

✓ Correct

21. What is the result of the following lines of code?

1 / 1 point

```
a=np.array([10,9,8,7,6]) a+1
```

- ☐ `array([101,91,81,71,61])`
- ☒ `array([11,10,9,8,7])`
- ☐ `array([9, 8, 7, 6, 5])`

✓ Correct

22. What is a two-dimensional data structure?

0 / 1 point

- ☐ Pandas Series
- ☐ Pandas Dataframe
- ☒ Numpy

✗ Incorrect

23. What is the method `readline()` used for?

1 / 1 point

- ☒ It helps to read one complete line from a given text file
- ☐ It reads 10 lines of a file at a time
- ☐ It reads the entire file all at once

✓ Correct

24. Which line of code is in the mode of append?

1 / 1 point

- ☐ with `open("Example.txt","w")` as file1:
- ☒ with `open("Example.txt","a")` as file1:
- ☐ with `open("Example.txt","r")` as file1:

✓ Correct

25. What is the extraction of data from a website?

1 / 1 point

☐ Web crawling

☒ Webscraping

☐ Data mining

✓ **Correct**