1. When slicing in Python what does the "2" in this statement [0:2] specify?   1 / 1 point

   ○ It specifies the position to start the slice

   ○ It specifies the step of the slicing

   ● It specifies the position to end the slice

   ✓ **Correct**

2. When slicing in Python what does the "2" in [::2] specify?   1 / 1 point

   ● It specifies the step of the slicing

   ○ It specifies the position to end the slice

   ○ It specifies the position to start the slice

   ✓ **Correct**

3. Consider the string Name="EMILY", what statement would return the index of 3?   1 / 1 point

   ○ **Name.find("Y")**

   ● **Name.find("L")**

   ○ **Name.find("M")**

   ✓ **Correct**

4. What is the type of the following: **1.0**

1 / 1 point

- ● float
- ○ str
- ○ int

✓ Correct

---

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

1 / 1 point

- ○ 4
- ● 3
- ○ 3.99

✓ Correct

---

6. What following code segment would produce an output of "0"?

1 / 1 point

- ○ 1/2
- ● 1//2

✓ Correct

---

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

1 / 1 point

- ○ Int
- ● Float

✓ Correct

8. How many identical keys can a dictionary have ?

1 / 1 point

- ○ 100000000
- ◉ 0
- ○ 3

✓ Correct

9. What is a tuple?

1 / 1 point

- ◉ A collection that is ordered and unchangeable
- ○ A collection that is unordered and changeable
- ○ A collection that is ordered and changeable

✓ Correct

10. What is the result of the following operation: **'1,2,3,4'.split(',')** ?

1 / 1 point

- ○ ('1','2','3','4')
- ◉ ['1','2','3','4']
- ○ '1234'
- ○ '1','2','3','4'

✓ Correct

11. What is a collection that is ordered, changeable and allows duplicate members?

1 / 1 point

- ○ Set
- ◉ List
- ○ Tuple
- ○ Dictionary

✓ Correct

12. What code segment is used to cast list "B" to the set "b"?

1 / 1 point

- ○ b.set()
- ◉ b=set(B)
- ○ b=B.dict()

✓ Correct

13. If x=1 what will produce the below output?

Hi

Mike

○ if(x!=1):

```
print('Hello')

 else:

   print('Hi')

  print('Mike')
```

○ if(x==1):

```
print('Hello')

 else:

   print('Hi')

  print('Mike')
```

○ if(x!=1):

```
print('Hi')

 else:

   print('Hello')

  print('Mike')
```

✓ **Correct**

14. What is the process of forcing your program to output an error message when it encounters an issue?

- ○ Output errors
- ● Exception handling
- ○ Error messages
- ○ Force Out

✓ **Correct**

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

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

- ● '11'
- ○ 2
- ○ '2'

✓ **Correct**

16. What function returns a sorted list?

- ○ sort()
- ○ find()
- ○ lower()
- ● sorted()

✓ **Correct**

17. What segment of code would output the following?

3

6

9

○ A=[1,2,3] for a in A: print(2*a)

○ A=['1','2','3'] for a in A: print(2*a)

◉ A=[1,2,3] for a in A: print(3*a)

✓ **Correct**

18. What is the output of the following?

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

◉ 1

  3

  4

○ 1

  2

  3

  4

○ 2

✓ **Correct**

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

```
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
- ◯ 0
- ◉ 2

✓ **Correct**

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

a=np.array([0,1,0,1,0]) b=np.array([1,0,1,0,1]) a*b

- ◉ array([0, 0, 0, 0, 0])
- ◯ array([1, 1, 1, 1, 1])
- ◯ 0

✓ **Correct**

21. What line of code would produce the following: array([11, 11, 11, 11, 11])?   1 / 1 point

○ a=np.array([1,1,1,1,1]) 11-a

○ a=np.array([1,2,1,1,1]) a+10

◉ a=np.array([1,1,1,1,1]) a+10

  ⊘ **Correct**

22. How would you select the columns with the headers: Artist, Length and Genre from the dataframe **df** and assign   1 / 1 point
them to the variable **y** ?

○ y=df[['Artist'],['Length'],['Genre']]

◉ y=df[['Artist','Length','Genre']]

○ y=df['Artist','Length','Genre']

  ⊘ **Correct**

23. Consider the file object: **File1**. How would you print the first two lines of text?   1 / 1 point

○ file1.readline(4)

◉ for n in range(0,2): print(file1.readline())

  ⊘ **Correct**

24. Which line of code is in the mode of append?   1 / 1 point

◉ with open("Example.txt","a") as file1:

○ with open("Example.txt","w") as file1:

○ with open("Example.txt","r") as file1:

  ⊘ **Correct**

25. What does URL stand for?   1 / 1 point

◉ Uniform Resource Locator

○ Uniform Resource Location

○ Uniform Reset Locator

  ⊘ **Correct**