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Final Exam

Latest Submission Grade **100%**

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

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

1 / 1 point

- ☐ `Name.find("Y")`
- ☐ `Name.find("M")`
- ☒ `Name.find("L")`

✓ Correct

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

1 / 1 point

- ☐ str
- ☐ int
- ☒ float

✓ Correct

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

1 / 1 point

- ☐ 4
- ☐ 3.99

☒ 3

✓ Correct

6. What is the result of the following code segment: `1/2`?

1 / 1 point

☒ 0.5

☐ 0

✓ Correct

7. In Python 3 what following code segment will produce an int?

1 / 1 point

☒ `2//3`

☐ `1/2`

✓ Correct

8. What data type must have unique keys?

1 / 1 point

☒ Dictionary

☐ List

☐ Tuple

✓ Correct

9. What is the syntax to obtain the first element of the tuple?

1 / 1 point

`A=('a','b','c')`

☒ `A[0]`

☐ `A[:]`

☐ `A[1]`

✓ Correct

10. What line of code would produce this output: `['1','2','3','4']`?

1 / 1 point

☒ `'1,2,3,4'.split(',')`

☐ `'1,2,3,4'.split('')`

☐ `'1,2,3,4'.join(',')`

☐ `'1,2,3,4'.reverse(',')`

✓ Correct

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

1 / 1 point

- ☐ Tuple
- ☒ List
- ☐ Set
- ☐ Dictionary

✓ Correct

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

1 / 1 point

- ☐ b.set()
- ☐ b=B.dict()
- ☒ b=set(B)

✓ Correct

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

1 / 1 point

Hi
Mike

- ☐ if(x!=1):
 print('Hi')
else:
 print('Hello')
 print('Mike')
- ☐ if(x==1):
 print('Hello')
else:
 print('Hi')
 print('Mike')
- ☒ if(x!=1):
 print('Hello')
else:
 print('Hi')
 print('Mike')

✓ Correct

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

1 / 1 point

- ☐ Force Out
- ☒ Exception handling

- ☐ Output errors
- ☐ Error messages

✓ Correct

15. What add function would return '11' ?

1 / 1 point

- ☐ def add(x): return(x+x+x) add('1')
- ☐ def add(x): return(x+x) add(1)
- ☒ def add(x): return(x+x) add('1')

✓ Correct

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

1 / 1 point

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

✓ 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 code segment would output the following?

1 / 1 point

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

✓ Correct

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

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()
```

- ☐ 0
- ☐ 3
- ☒ 2

✓ Correct

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

1 / 1 point

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

- ☒ array([1, 1, 1, 1, 1])
- ☐ 0
- ☐ array([0, 0, 0, 0, 0])

✓ Correct

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

1 / 1 point

```
a=np.array([1,1,1,1,1]) a+1
```

- ☐ array([11, 11, 11, 11, 11])
- ☒ array([2,2,2,2,2])
- ☐ array([1,1,1,1,1])

✓ Correct

22. What does the following line of code select along with the headers 'Artist', 'Length' and 'Genre' from the dataframe **df**?

1 / 1 point

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

- ☒ Columns
- ☐ The entire dataframe
- ☐ Rows

✓ Correct

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

1 / 1 point

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

✓ Correct

24. What mode over writes existing text in a file?

1 / 1 point

- ☐ Read "r"
- ☐ Append "a"
- ☒ Write "w"

✓ Correct

25. What does URL stand for?

1 / 1 point

- ☐ Uniform Resource Location
- ☒ Uniform Resource Locator
- ☐ Uniform Reset Locator

✓ Correct