	700#
Name	
Name	2

1. What will be the output for the following code?

A. 10

print(c[3])

B. 15

C. 35

D. 9



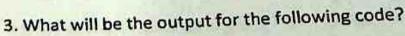
2. Assume tup1 = (1, 2, 3, 4, 5, 6), which of the following statement

A. tup1 += [11]

B. tup1 += 11

c. tup1 += (11,)

D. tup1 += 'hello'



A. 6

B. 7

C. 8

D. 10



4. What will be the output for the following code?

list1 = [1, 2, 3, 4, 5, 6, 7, 8, 9] print(list1[3:len(list1):-2])

A. [4, 6, 8]

B. [4, 2]

C. Syntax error

of. []

5. What will be output for the following code? dota = pd.Series(('a', 'b', 'c', 'd', 'e'), index=(1, 3, 4, 6, 7))

ь 8. c

data[3]

C. d

D. e

6. What will be output for the following code?

list1 = [-1, 63, 36, 100, -5, -36] sorted(list1, reverse*True) print(list1)

A. [-36, -6, -1, 36, 63, 100] B [-1, 63, 36, 100, ·6, -36]

C. [100, 63, 35, -1, -6, -36]

D. None of the above

7. What will be output for the following code?

list1 = [1, 10, 3, 6] list2 = [item * 2 for item in list1 if item < 5] print(list2)

A. [2, 20, 6, 12]

[2, 6] C. [20, 12]

D. [[1, 10, 3, 6], [1, 10, 3, 6]]

8. What will be output for the following code?

mystr = 'yes' yourstr = 'no' mystr += yourstr * 3 print(mystr)

A. yes + no yes + no yes + no

B. yes+no*3

C. yesnoyesnoyesno

D. yesnonono

```
9. What will be output for the following code?
 password = "I LOVE PYTHON"
 if password.isalpha():
     print('Invalid, must contain one digit')
     print('Invalid, must contain one non-numeric character')
 elif password.isdigit():
      print('Invalid, carrot be all opportune characters')
  elif password.isupper():
      print( 'Your password is secure')
  else:
       B. Invalid, must contain one non-numeric character
      ( Invalid, cannot be all uppercase characters
       D. Your password is secure
   10. What will be output for the following code?
     arr = np.arange(1, 10).reshape((3, 3))
     print(arr.sum())
         A [6,15,24]
          B. [12,15,18]
       IL What will be output for the following code?
         result a signartition('I')
        msg = .63/87/2823.
         print(result)
             A (3', 7, 7023)
             E. [03, 07, 2023)
           12 What will be output for the following cote?
            A (10x 1, 20x 2, 30x 3)
             Kin (4)
                      $15(0.3), 2(0.6), 3(0.5)
                                no 3: 30i
```

```
11 What will be output for the following code?
     office will describe transposer, tear thornels, they were rathing?
        del cities (ca.)
     printfellies)
        A. [Georgia', 'Attanta', 'New York': 'Albany', 'CA', 'Sacramento')
       B. (Georgia): 'Attanta', 'CA': 'Secremento', 'New York', 'Albumy')
       C. ("Generala", "Atlanta", "New York": "Albumy")
       D. PCA: Secremento?
   14. What will be output for the following code?
   arr . mp.array((1, 2, 3, 4, 5, 6))
   arr[2] = 3.34
   frint(arr)
      A [123456]
      B. (123.14456)
      C [13.143456]
     D. Syntax error as NumPy array does not allow different data type with
  15. What will be output for the following code?
  s1 = np.array((1, 2, 3, 4, 5, 6))
  s1_sub = s1[1:3]
  $1_sub[0] & 59
  print(s1)
    A [123456]
    B. [199 3 4 5 6]
    C. 1992 3 4 5 6]
    D. Syntax error
16. What will be output for the following code?
grid = np.array(\{[1, 2],
                    [3, 4]])
print(np.concatenate([grid, grid]))
   A [[12]
                                     C. Syntax error
       [34]
       [1 2]
       13.411
```

D. [[1234]

[1234]]

B. [[1212]

[3434]]

17. What will be output for the following code?

ser * pd.Series(np.erange(3.0), index * ['a', 'a', 'a'])
ser[-1]

- A 10
- 2.0
- C. 3.0
- D. Syntax error

18. What will be output for the following code?

```
arr = np.arange(12).reshape((3, 4))
row = np.array((1, 2))
col = np.array((2, 3))
print(arr[row, col))
```

- A [[6 7]
 - [10 11]]
- 8. [[67]]
- D. [[2.3] [6.7]]

19. What will be output for the following code?

```
arr = np.array([0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9])
print(arr[arr > 0.2 & arr < 0.9])
```

- A Syntax error
- 8. [0.30.40.50.60.70.8]
- C. [0.40.50.60.7]
- D. [0.20.30.40.50.60.70.80.9]

20. What will be output for the following code?

21. What is a correct syntax to print the number 8 from the array below

A print(arr[1, 2])

- B. print(arr[3, 0))
- c print(arr[7, 2])
- D. print(arr[2, 3])
- p. print(e-1) 22 What is a correct syntax to print the numbers [3, 4, 5] from the array has
 - A print(arr[3:6])
 - print(arr[2:5])
 - c. print(arr[2:6])
 - print(arr[2:4]) D.



- 23. Which of the following statements a), b) or c) is false?
 - Method reshape returns a deep copy of the original array and a principal array
 - B. The array methods reshape and resize both enable you to design modifies the original array's shape
 - D. All of the above statements are true
- 24. Which syntax would print every other item from the array below

arr = np.array([1, 2, 3, 4, 5, 6, 7])

- A. print(arr[::2])
- B. print(arr(0, step=2))
- C. print(arr[1:3:5:7])
- D. None of the above



25. Which of the following statement will return a two-dimensional Academic data points in a DataFrame df?

- A. df.values
- B. df.values()
- C. df.to numpy
- D. df.value

26. What will be output for the following code?

arr = np.array([1,2,3])print(np.cumsum(arr))

- A. [9]
- B. [6]
- C [369]
- D. [136]



```
arr = np.array([1, 2, 3, 4, 5, 6])
print(np.where(arr > 3, 0, arr))
  [123000]
   B. [103050]
   C. [020406]
   D. [000456]
28. What will be output for the following code?
 arr = np.arange(6).reshape(2, 3)
 flattened = arr.flatten()
 flattened[0] = 99
 print(arr)
```

- A. [[0 1 2] [3 4 5]]
 - B. [[99 1 2] [3 4 5]]
 - c. [0 1 2 3 4 5]
 - D. [99 1 2 3 4 5]

29. What will be output for the following code?

data = pd.Series([1, np.nan, 'hello', None]) result = data[data.isnull()] print(result)

- A. 1 NaN
- B. 0 1
- 3 None

2 'hello'

C. NaN None

- D. 1 'hello'
- 30. What will be output for the following code?

obj = pd.Series(range(5), index=['a', 'a', 'b', 'b', 'c']) obj['a']

A. a 1

a 2

C. a 1

D. a 0

