



INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

COMPUTER SCIENCE

CLASS: XI

Sub.Code: 083

Time Allotted: 50mts.

15.01.2023

Max .Marks: 20

GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Programming language is Python.

1. Which of the following options will result in an error when performed on tuples in Python where T1 = (11, 20, 17, 10, 20) ? 1
 - a) T1=T1* 2
 - b) T2=max(T1)
 - c) T1.append(2)
 - d) T1.count(20)
2. What is the difference between extend() and append() method in List? 1
3. Write the most appropriate function to perform the following tasks: 1
 - i) To delete the first matching item from the list.
 - ii) To know the number of elements in the list.
4. If L2=[4, 3, 6, 5, 8] , 1
Write a statement to sort the list L2 in the descending order without creating a new list to get an output as [8, 6, 5, 4, 3].
5. How is list different from tuple? 1
6. Consider the tuple: 2
Items=((100, 200, 300), (40, 50, 60)), [1, 1, 2, 3, 5, 8], ('a', 'e', 'i', 'o', 'u'))
Then what will be the value of:
 - i) print(len(Items))
 - ii) print(Items[0][0])

Write the output of the following python code:

2

```
a=(1, 2, 3, 2, 3, 4, 5)
print(max(a) + a.count(2))
t1 = (23, 45, 67, 43, 21, 41)
print(t1[-1: -5: -1])
```

8. Write the output of the following code:

2

```
L=[1, 2, 3, 4, 5, 6]
item = L.pop(2)
print('ITEM:', item)
newList=L[:3] + L[3:]
print('NEW LIST:', newList)
```

9. Write a python program to input a tuple of elements and search for an element (input by the user) in the tuple.

3

10. Write a python program to input a list of numbers and swap elements at the even location with the elements at the odd location.

3

11. Write a python program to input a list of numbers and print the smallest and largest number from the list.

3



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1. Which of the following options will not result in an error when performed on tuples in Python where $T = (11, 22, 33, 44, 55)$? 1
 - a) $T = T + 3$
 - b) $T = T * 3$
 - c) $T.append(2)$
 - d) $T[0] = 20$
2. What is the difference between list and tuple? 1
3. Write the most appropriate function to perform the following tasks: 1
 - (i) To remove all elements from a list and the list becomes empty list after this function.
 - (ii) Add an element at the end of the list.
4. What is the difference between `pop()` and `remove()` method in List? 1
5. If $L1 = [400, 300, 60, 500, 80]$,
Write a statement to sort the List L1 in the descending order without creating a new list to get an output as $[500, 400, 300, 80, 60]$. 1
6. Consider the tuple: 2
 $t1 = (((1, 2, 3, 4), 'a', 'b'), 'g', 1, 3, 'Sonu')$

Then what will be the value of:

- i) `print(len(t1))`
- ii) `print(t1[0][0])`

7. Write the output of the following python code: 2

```
a=(11, 21, 3, 2, 3, 40, 5)
print(min(a) + a.count(3))
t1 = (13, 25, 57, 33, 61, 81)
print(t1[-2: -6: -1])
```

8. Write the output of the following code: 2

```
list1=[5, 3, 2, 1, 0, 1, 2, 3]
list1[4]=10
print('SUM OF LIST:', sum(list1))
list1.insert(6,4)
print('UPDATED LIST1:', list1)
```

9. Write a python program to input a tuple and print the alternate elements of a tuple. 3
10. Write a python program that inputs a list of numbers and shifts all the zero's to right and all non-zero numbers to left of the list and print. 3
11. Write a python program to input a list of integers and print the largest even number. If there is no even number in the list, print "No even number". 3



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1. Which of the following options will not result in an error when performed on tuples in Python where `tupl = (5, 2, 7, 0, 3)` ? 1
 - a) `tupl1=tupl + tupl * 2`
 - b) `tupl = tupl + 'A'`
 - c) `tupl.append(2)`
 - d) `tupl[1]=2`
2. What is the difference between `extend()` and `append()` method in List? 1
3. Write the most appropriate function to perform the following tasks: 1
 - i) Add an element in the beginning of the list.
 - ii) Get the position of an item in the list.
4. If `L = [9, 3, 5, 4, 6]` , 1
Write a statement to sort the list L in the descending order without creating a new list to get an output as `[9, 6, 5, 4, 3]`.
5. How is list different from tuple? 1
6. Consider the tuple: 2
`T1 = (((('a', 2), 'b', 'c', 'd'), 4), 'e', 'f', 6)`
Then what will be the value of:
 - i) `print(len(T1))`
 - ii) `print(T1[0][0])`
7. Write the output of the following python code: 2

```
T = (11, (22, (33, ), 44), 55)
print( T[2] + 100)
t1 = (23, 65, 57, 49, 20, 40, 35, 48)
print(t1[-2: -5: -2])
```

8. Write the output of the following code:

2

```
L=[11, 22, 33, 44, 55, 66, 77]
item = L.pop(2)
print('ITEM:', item)
newList=L[:3] + L[3:]
print('NEW LIST:',newList)
```

9. Write a python program to input a list of numbers and print the smallest and largest number from the list. 3
10. Write a python program that inputs a list of integers and print the sum of the even indexed elements of the list, minus the sum of the odd-indexed elements of the list. 3
11. Write a python program to input a tuple of elements and search for an element (input by the user) in the tuple. 3