



INDIAN SCHOOL MUSCAT
SECOND PERIODIC TEST
COMPUTER SCIENCE

CLASS: XI

Sub.Code: 083

Time Allotted: 50mts.

26.11.2023

Max .Marks: 20

GENERAL INSTRUCTIONS:

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

1. Consider the tuple in Python named DAYS= ("SUN","MON","TUES").
Identify the invalid statement(s) from the given below statements: 1
 - a) S=DAYS[1]
 - b) print(DAYS[2])
 - c) LIST=list(DAYS)
 - d) DAYS[0]= "WED"
2. Find the output of the following: 1
>>> Name = "Indian School Muscat"
>>> print(Name[-8::-2])
3. If L1=[4,-2,9,23,13,0,78,9] ,write a statement to sort the List L1 in the descending order
without creating a new list to get the list as [78,23,13,9,9,4,0,-2]. 1
4. Write any two differences between del and pop methods in List. 1
5. Write the statement with the most appropriate function to perform the following tasks: 1
 - (i) To add an element 24 in the 4th position in a list L1.
 - (ii) Add an element 2 at the end of the list L1.
6. Give the output of the following code snippet: 2

```
a1 = ('D','B','C','A')  
a2= ('4','3','2','1')  
a3= a2+a1  
a4 = a3[:4]+a3[:-3]
```

```
print ("Tuple 4 is ", a4 )  
t1=(38,-3,7,-2,4.2,12,-4)  
print(t1[t1[1]] + t1[t1[-4]])
```

7. The record of a student (Name, Roll No., Marks in five subjects and percentage of marks) is stored in the following list: 2
RecordList = ['Rishabh', 'B-74', [57,94,91,73,82], 79.4]

Write Python statements to print the following information from the list RecordList.

- a) Percentage of the student.
 - b) Marks in the fifth subject.
 - c) Maximum marks of the student.
 - d) Change the name of the student from 'Rishabh' to 'Ritika'.
8. Explain packing and unpacking of tuples with example of each. 2
9. Write a python program to input a list of numbers and swap elements at the even location with the elements at the odd location. Print the list after swapping. 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. Create the following tuples using for loop : 3
- i. A tuple containing squares of the integers 1 to 50.
 - ii. The tuple ('a', 'bb', 'ccc', 'dddd') that ends with 26 copies of the letter 'z'.



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1. Identify the valid statement for list L=[1,2,"a"]:
(i) L.remove("2")
(ii) L.del(2)
(iii) del L[2]
(iv) del L["a"] 1
2. What is the difference between pop() and remove() methods in List?(Write any two). 1
3. Write statement with the most appropriate function to perform the following tasks: 1
 - (i) Add 4 elements 22,33,44,77 at the end of the list P.
 - (ii) To remove all elements from a list P and the list becomes empty list after this function.
4. Find the output of the following: 1
>>> Name = "Second Periodic Test"
>>> print (Name [4:-3])
5. If T1=(4,-2,9,23,13,0,78,9) ,write a statement to create a new tuple K which is the sorted version of the given tuple T1 in descending order. 1
6. The record of a student (Roll_No,Name, Roll, Percentage and Marks in five subjects is stored in the following list: 2
RecordList = ['B-74', 'Virat', 79.4, [57,94,91,73,82]]

Write Python statements to print the following information from the list RecordList.

- a) Percentage of the student.
- b) Marks in the third subject.
- c) Minimum marks of the student.
- d) Change the name of the student from 'Virat' to 'Anushka'.

7. Explain packing and unpacking of tuples with example of each. 2
8. Give the output of the following code snippet: 2

```
a1 = (11,77,88,22)
a2= ('4','2','1')
a3= a2+a1
a4 = a3[:4]+a3[:-3]
print ("Tuple 4 is ", a4 )
t1=(4,2,-78,-2,0,3,-1)
print(t1[t1[1]] + t1[t1[-4]])
```

9. 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
10. Write a Python program that 3
- i) Inputs a number n and creates a tuple containing: n, 2n, 3n and 4n.
 - ii) Creates a tuple containing squares of the integers 1 to 50.
11. Write a python program to input a list of numbers and swap elements at the even location with the elements at the odd location. Print the list after swapping. 3



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1. Which of the following statements will create a tuple ? 1
(a) Tp1 = ("a", "b",)
(b) Tp1= (3) * 3
(c) Tp1[2] = ("a", "b")
(d) Tp 1 = ("a", "b")
2. Find the output of the following: 1
>>>Name = "Python Examination"
>>>print (Name [: 8 : -1])
3. If L1=[4,-2,9,23,13,0,78,9], write a statement to add a number 33 in the 7th position. 1
4. Write any two differences between del and remove methods in List. 1
5. Write the statement with the most appropriate function to perform the following tasks: 1
(i) To find the number of occurrences of an element 24 in a list X.
(ii) Add elements 77, 32 and 49 at the end of the list X.
6. Explain packing and unpacking of tuples with example of each. 2
7. Give the output of the following code snippet: 2

```
a1 = ('P','R','q','s')  
a2= ('7','2','8','3')  
a3= a2+a1  
a4 = a3[:4]+a3[:-3]  
print ("A4 is ", a4)
```

```
t1=(7.2,-3,7.3,-2,3.8,4.8,-4.3)
print(t1[t1[1]] + t1[t1[-4]])
```

8. The record of an employee (Name, Empno, Job, Address(flat number, building number, Way number), and Salary)is stored in the following list: 2

```
RecordList = ['Rishabh', 234, 'engineer', [34,2498,1933], 34000]
```

Write Python statements to print the following information from the list RecordList.

- a) Salary of the employee.
- b) Building number of employee.
- c) Change the flat number to 23.
- d) Employee number (Empno).

9. Write a python program that creates a tuple storing first 10 terms of Fibonacci series. 3
10. Write a python program that prints the sum of the even indexed elements of the list K, minus the sum of the odd-indexed elements of K and print. 3
11. Write a python program that returns the largest even number in the list of integers. If there is no even number in input, print "No even number". 3