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Periodic Test-III

 Computer Science(Code083)

 Class: XI Date:20 .12.22

 Time:1hr 30 mins Marks:40

 General Instructions:

 1. This question paper contains two parts A and B.Each part is Compulsory.

 2. Part-A has 3 sections:

a. Section-I is one mark questions, to be answered in one word.

b.Section-II is short answer question of 2 marks each in which two question have internal options.

c.Section-III is very long answer questions of 5 marks.

## Part-A

# Section-I

 **Choose the best possible option.**

1.list1 = [1, 2, 3, 4, 5] 1

list2 = list1

list2[0] = 0;

print( list1)

a. [1, 2, 3, 4, 5, 0] b.[0,1, 2, 3, 4, 5] c. [0, 2, 3, 4, 5] d.[1, 2, 3, 4, 0]

2. **Find the output: 1**

list = [1, 2, 3, None, (1, 2, 3, 4, 5), [‘Hi’, ‘Hello’, ‘Bye’]]

print(len(list))

a. 12 b. 11 c. 22 d.6

3. **Find the output: 1**

list = [‘python’, ‘learning’, ‘@’, ‘cbse’, ‘python’, ‘.in’]

print(list[0:6:2])

a. [‘python’, ‘@’, ‘python’] b. [‘python’, ‘learning’, ‘@’] c. [‘python’, ‘learning’, ‘@’, ‘python’, ‘in’] d. [‘python’, ‘in’]

4.Which of the following creates a tuple? 1

a. tuple1=(5)\*2b. tuple1=("a","b")

c. tuple1[2]=("a","b")d. None of the above

5. **Find the output: 1**

d1 = [10, 20, 30, 40, 50]

d2 = [1, 2, 3, 4, 5]

print( d1 – d1 )

a. [10, 20, 30, 40, 50] b.[1, 2, 3, 4, 5]

c. [10, 20, 30, 40, 50,-1, -2, -3, -4, -5] d. No Output

6. If a=(1,2,3,4), a[1:-1] is \_\_\_\_\_\_\_\_\_ 1

a. (2,3)b. [2,3]

c. (2,3,4)d. Error, tuple slicing doesn’t exist

7.What will be the output of the following Python code snippet? 1
a={1:"A",2:"B",3:"C"}
for i,j in a.items():
 print(i,j,end=" ")

a. 1 2 3b. A B Cc. 1 A 2 B 3 Cd. 1:”A” 2:”B” 3:”C”

8. Which of the following is correct with respect to above Python code? 1
d={"a":3,"b":7}

a. a dictionary d is created.b. a and b are the keys of dictionary d.

c. 3 and 7 are the values of dictionary d. All of the above.

9.Which of the following is not a declaration of the dictionary? 1

a. { }b. {1,”A”,2”B”}

c. {1: ‘A’, 2: ‘B’}d. dict([[1,”A”],[2,”B”]])

10. **Find the output : 1**

L1 = [1, 2, 3, 4]

L2 = L1

L3 = L1.copy()

L4 = L1

L1[0] = [5]

print(L1, L2, L3, L4)

a.[5, 2, 3, 4] [5, 2, 3, 4] [1, 2, 3, 4] [1, 2, 3, 4]

b. [[5], 2, 3, 4] [[5], 2, 3, 4] [[5], 2, 3, 4] [1, 2, 3, 4]

c. [5, 2, 3, 4] [5, 2, 3, 4] [5, 2, 3, 4] [1, 2, 3, 4]

d. [[5], 2, 3, 4] [[5], 2, 3, 4] [1, 2, 3, 4] [[5], 2, 3, 4]

# Section-II

11.i)How are lists different from the strings when both are sequences? 2

 ii) What are nested lists?

12.Write a program to find the largest/smallest number in a list/tuple 2

13.What is the difference between append() and extend() functions? 2

14.Write a program that reverses a list of integers 2

15.What are list slices? 2

16.Why is a dictionary termed as an unordered collection of objects? 2

17.What does from keys() method do? 2

18.i) What is the difference between (30) and (30,) 2

 ii)Write a program to print the index of the minimum element in a tuple.

19.What is the work of index method? Give one example program of it . 2

20.Differentiate between list,tuples and dictionary 2

**Section-III**

21. i.Write a program to check if the maximum element of the list lies in the first half of the list or in second half. 3

 ii.Write a program that inputs a list,replicates it twice and then prints the sorted list in ascending and descending orders. 2

22.i. Write a program to check if a dictionary is empty 2

 ii.What is the similarity and difference between partition() and split() functions?1

 iii.Write a program to input two strings.if string1 is contained in string2,then create a third string with first four characters of string2’ added with word ‘Restore’. 2