REVISION TEST SERIES

CS1 SETA Class 12 - Computer Science Time Allowed: 1 hour and 30 minutes Maximum Marks: 35				
Section A				
1.	1. Suppose a tuple T is declared as $T = (10, 12, 43, 39)$, which of the following is incorrect?			
	a) print(T[1])	b) T[2] = -29		
	c) print(max(T))	d) print(len(T))		
2.	List AL is defined as follows: AL= [1, 2, 3, 4, 5] Which of the following statements remove list AL equals [1, 2, 4, 5]? A. del a[2] B. a[2:3] = [] C. a[2:2] = [] D. a[2] = [] E. a.remove(3)	es the middle element 3 from it so that the	[1]	
	a) B, D, E	b) A, C, D		
	c) C, D, E	d) A, B, E		
3.	Which code segment will output the number 20 to the console window?			
	a) myValue01 = 10 myValue02 = 10 print(myValue01 + myValue02)	b) myValue01 = "10" myValue02 = "10" myValue01 = myValue01 + myValue02 print(myValue02)		
	c) myValue01 = 10 myValue02 = 10 myValue01 = myValue01 + myValue02 print(myValue01)	d) myValue01 = "10" myValue02 = "10" print(myValue01 + myValue02)		
4.	What is the default return value for a function that does not return any value explicitly?		[1]	
	a) double	b) None		
	c) null	d) int		
5.	Which of the following function headers is correct?		[1]	
	a) def f(a = 1, b = 1, c = 2):	b) def f(a = 1, b, c = 2):		
	c) def f(a = 1, b = 1, c = 2, d):	d) def f(a = 1, b):		
6.	Which of the following four code fragmer Eina Nina Dika Select all of the function calls that result		[1]	

Select all of the function calls that result in this output

	a) print('Eina Nina Dika')	b) print('Eina\nNina\nDika')		
	c) print(' ' ' EinaMinaDika' ' ')	d) print('''Eina Nina \nDika''')		
7.	Carefully observe the code and give the a def function1(a): a = a + '1' a = a * 2 >>>function1("hello")	answer.	[1]	
	a) hello2	b) cannot perform mathematical operation on strings		
	c) hello2hello2	d) indentation error		
8.	Assertion (A): The tuple items cannot b Reason (R): To delete an entire tuple, w name.	be deleted by using the del keyword. We can use the del keyword with the tuple	[1]	
	a) Both A and R are true and R is the correct explanation of A.	 b) Both A and R are true but R is not the correct explanation of A. 		
	c) A is true but R is false.	d) A is false but R is true.		
	SEC	TION B		
9.	If a is (1, 2, 3) i. what is the difference (if any) between ii. is a * 3 equivalent to a + a + a? iii. what is the meaning of a[1:1]? iv. what's the difference between a[1:2] a		[2]	
		OR		
	Write a program to sort the list alphabetically in a dictionary.			
10.	Rewrite the following code in Python after each correction done in the code. Value = 30 for VAL in range(0,Value) If val % 4 == 0: print (VAL * 4) Elseif val % 5 == 0: print (VAL + 3) else print(VAL + 10)	r removing all syntax error(s). Underline	[2]	
11.	<pre>Predict the output of the following code: num = 1 def myfunc(): global num num=10 return num print(num) print(num) print(myfunc()) print(num)</pre>		[2]	

SECTION C

- 12. Write Python code to create and add items to a dictionary. Ask the user to input key [3] value pairs. Continue as long as the user wishes.
- 13. Write a program to sort a dictionary's keys using Bubble sort and produce the sorted [3] keys as a list.
- 14. Rewrite the following code in python after removing all syntax errors. Underline each correction [3] done in the code:

```
Def func(a):

for i in (0,a):

if i%2 =0:

s=s+1

elseif i%5= =0

m=m+2

else:

n=n+i

print(s,m,n)

func(15)
```

15. Write a function listchange(Arr)in Python, which accepts a list Arr of numbers, the function will [3] replace the even number by value 10 and multiply odd number by 5.

SECTION D

16. a) Write a function REP which accepts a list of integers and size of list and replaces elements having [5] even values with its half and elements having odd values with twice its value. eg: if the list contains

3, 4, 5, 16, 9 then the function should rearranged list as 6, 2,10,8, 18

b)

Find and write the output of the following Python code:

def Show(str):

m=""

for i in range(0,len(str)):

```
if(str[i].isupper()):
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m=m+str[i].lower()

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elif str[i].islower():
```

m=m+str[i].upper()

else:

if i%2==0:

m=m+str[i-1]

else:

m=m+"#"

print(m) Show('HappyBirthday')

OR

a) Write a program in Python, which accepts a list Arr of numbers , the function will replace the even number by value 10 and multiply odd number by 5 .
Sample Input Data of the list is:
arr=[10,20,23,45]
output : [10, 10, 115, 225]

```
b) Find and write the output of the following python code:
def Change(P,Q=30):
P=P+Q
Q=P-Q
print( P,"#",Q)
return (P)
R=150
S=100
R=Change(R,S)
print(R,"#",S)
S=Change(S)
```

SECTION E-CASE BASED QUESTIONS

17. Kids Elementary is a playway school that focuses on 'Play and learn' strategy that helps toddlers understand concepts in a fun way. Being a senior programmer, you have taken responsibility to develop a program using user-defined functions to help children differentiate between upper case and lower case letters/English alphabet in a given sentence. Make sure that you perform a careful analysis of the type of alphabets and sentences that can be included as per age and curriculum. Write a Python program that accepts a string and calculates the number of upper case letters and lower case letters.