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STD: XII AUGUST MONTHLY TEST Lessons: 8 to 10 Marks: 50 / Time: 1.30 Hrs. **COMPUTER SCIENCE** PART-I I. Choose the correct answers. $10 \times 1 = 10$ 1. What will be the output of the following code? str1 = "Chennai Schools" str1[7] = "-" a) Chennai-Schools b) Chenna-School d) Chennai c) Type error 2. Which of the following is used as placeholders or replacement fields which get replaced along with format() function? d) ^^ a) { } b) <> c) ++3. Versatile function is a) Format() b) in and not in c) Lambda d) User defined 4. Which of the following function is used to count the number of elements in a list? c) len()a) count() b) find() d) index() 5. What will be the result of the following Python code? $S = [x^{**2} \text{ for } x \text{ in range}(5)]$ print(S) b) [0,1,4,9,16] a) [0,1,2,4,5] c) [0,1,4,9,16,25] d) [1,4,9,16,25] 6. Which loop is suitable to access the elements one by one? b) While a) For c) Do...While d) Foreach 7. is a mixed collection of elements. b) Dictionary a) Set c) Tuple d) List 8. A private class variable is prefixed with b) && a) _ d) ** c) ## 9. Which of the following is the private class variable? b) ##num a) __num c) \$\$num d) &&num 10. Which function will execute automatically when an object of a class is created? b) Destructor c) Selector d) init function a) Constructor

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PART– II	
II. Answer any five questions. Question No. 17 is compulsory:	5 X 2 = 10
11. Do you modify a string in Python?	
12. Write the Output for the following code:	
<pre>str1 = input ("Enter a string: ")</pre>	
index=0	
for i in str1:	
print ("Subscript[",index,"] : ", i)	
index + = 1	
13. How will you access the list elements in reverse order?	
14. What is the use of pop()?	
15. What is the Output after updating the elements in a list?	
MyList = [2, 4, 5, 8, 10]	
print ("MyList elements before update ")	
for x in MyList:	
print (x)	
MyList[2] = 6	
print ("MyList elements after updation")	
for y in MyList:	
print (y)	
16. What is instantiation?	
17. How will you define a Class? Write the syntax for class.	
PART– III	
III. Answer any five questions. Question No. 24 is compulsory:	5 X 3 = 15
18. Write a Python program to display the given pattern	
COMPUTER	
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СОМ

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С

19. Write general format of replace function:

20. What will be the output of the following code?

```
list = [2^{**x} \text{ for } x \text{ in range}(5)]
```

print(list)

21. Write the Output for the following code:

```
squares = []
```

```
for x in range(1,11):
```

```
s = x ** 2
```

```
squares.append(s)
```

print (squares)

- 22. What are the ways to deleting an elements in a list?
- 23. What is the output of the following program?

class Greeting:

```
def __init__(self, name):
```

```
self.__name = name
```

def display(self):

```
print("Good Morning ", self.__name)
```

```
obj=Greeting('Bindu Madhavan')
```

obj.display()

24. How class members can be accessed?

PART-IV

IV. Answer all the questions.

25. a) Explain about string operators in python with suitable example.

(OR)

b) What the different ways to insert an element in a list. Explain with suitable example.

26. a) Explain the different set operations supported by python with suitable example.

(OR)

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$3 \times 5 = 15$

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b) Write the Output for the following code:

```
a=-1

b=1

n=int(input("Enter no. of terms: "))

i=0

sum=0

Fibo=[]

while i<n:

s = a + b

Fibo.append(s)

sum+=s

a = b

b = s

i+=1
```

print("Fibonacci series upto "+ str(n) +" terms is : " + str(Fibo))

print("The sum of Fibonacci series: ",sum)

27. a) Explain about constructor and destructor with suitable example.

(**OR**)

```
b) Write the Output for the following code:
```

class Student:

```
mark1, mark2, mark3 = 45, 91, 71
```

def process(self): #class method

sum = Student.mark1 + Student.mark2 + Student.mark3

avg = sum/3

print("Total Marks = ", sum)

print("Average Marks = ", avg)

return

```
S=Student()
```

S.process()