12 <sup>th</sup> Computer science								
Time : 3.00 hrs Marks : 70								
PART – A								
Choose the best answe		1	5x=15					
1. The functions which cause side effects to the arguments passed are called								
(A) impure function		(B) Partial Functions						
(C) Dynamic Fund	etions	(D) Pure functions						
2. A sequence of immutable objects is called								
(A) Built in	(B) List	(C) Tuple		(D) Derived data				
3. Which of the following security technique that regulates who cause resources in a computing								
environment?								
(A) Password	(B) Authent	ication (C) Access	control (	(D) Certification				
4 If a problem can be broken into subproblems which are reused several times, the problem possesses								
which property?								
(A) Overlapping subproblems (B) Optimal substructure								
(C) Memoization (D) Greedy								
5. Who developed Python ?								
A) Ritche	B) Guido Van Ross	sum C) Bill Gates		)) Sunder Pitchai				
6 Which statement is generally used as a placeholder?								
A) continue	B) break	C) pass	pass D) goto					
7. Which of the following keyword is used to define the function testpython(): ?								
(a) Define	(b) pass	(c) def	(c) def (d) while					
8. Which of the following is used as placeholders or replacement fields which get replaced along with								
format() function?								
(a) { }	(b) <>	(c) ++	(d) ^^					
9. Let set $A = \{3, 6, 9\}$ , set $B = \{1, 3, 9\}$ . What will be the result of the following snippet?								
print(setA setB)								
(a) {3,6,9,1,3,9}	(b) {3,9}	(c) {1}	(d) {1 3	6,9}				
10. Which of the following is the private class variable?								
(a)num	(b) ##num	(c) \$\$num	\$num (d) &#					
11. O(n) is an example of								
(a) best case	(b) Average case	(c) worst case	(d) Null	case				
12. What is the output for the following?								

M=25 if 24<25 else 50						
	(a) 25	(b) 50	(c) 24<25	(d) 0		
13 What is the output from the following statement?						
	Str1="welcome"					
	Print(str[::3])	(1)		(1) 1		
14 T			(c) wce			
14. In list=[10,23,41,75], the negative index value of 41 is						
1 - 1	(a) 2	(b) -1		(d) -3		
15. In python, constructor must begin and end with						
	(a) – and		(c) ++ and ++	(d) +- and -+		
_	PART – B					
Answer the any 6 in the following questions6x2=12						
Q.No: 22 is compulsory						
16. Differentiate interface and implementation.						
17. What is a Tuple? Give an example.						
18. How Python represents the private and protected Access specifiers?						
19. What is searching? Write its types.						
20. What is a literal? Explain the types of literals?						
21. Write note on range () in loop						
22. How to set the limit for recursive function? Give an example.						
23. What is slicing?						
24. What is instantiation?						
	PART – C					
Answer the any 6 in the following questions 6x3=18						
Q.No : 31 is compulsory						
25. Why strlen is called pure function?						
26. Identify Which of the following are List, Tuple and class ?						
	(a) arr [1, 2, 34] (b) arr (1, 2, 34) (c) student [rno name, mark]					
	(d) day= ('sun', 'mon', 'tue', 'wed') (e) $x = [2, 5, 6.5, [5, 6], 8.2]$					
(a) a a b a b a b a b a b a b a b a b a b						

- (f) employee [eno, ename esal eaddress]
- 27. Define Enclosed scope with an example.
- 28. Write a note on Asymptotic notation.
- 29. Write short notes on Escape sequences with examples.
- 30. List the differences between break and continue statements.
- 31. Differentiate ceil() and floor() function?

32. Write a Python program to display the given pattern

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33. Explain the difference between del and clear() in dictionary with an example.

## $\mathbf{PART} - \mathbf{D}$

## Answer the following:

5x5=25

34. What are called Parameters and write a note on

(i) Parameter without Type (ii) Parameter with Type (OR)

What is a List? Why List can be called as Pairs. Explain with suitable example

35. Write any five benefits in using modular programming. (OR)

What is Binary search? Discuss with example.

36. Write the output for the following program:

a=int (input("Enter a Value for A:")) b=int (input("Enter a Value for B:")) print ("A = ",a," and B = ",b) print ("The a==b = ",a==b) print ("The a > b = ",a=b) print ("The a > b = ",a>b) print ("The a < b = ",a<b) print ("The a >= b = ",a>=b) print ("The a <= b = ",a<=0) print ("The a != b = ",a!=b)

(OR)

Write a detail note on if..else..elif statement with suitable example.

37. Explain the scope of variables with an example (OR)

Explain about string operators in python with suitable example.

38. Explain the different set operations supported by python with suitable example (OR)

How do define constructor and destructor in Python?

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