12 th Computer science								
Time: 3.00 hrs Marks: 70								
PART – A								
Choose the best answer	::				15x=15			
1. The functions which cause side effects to the arguments passed are called								
(A) impure function	(A) impure function		(B) Partial Functions					
(C) Dynamic Functions		(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) Authenti	cation	(C) Access co	ntrol	(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	(C) Memoization (D) Greedy							
5. Who developed Python?								
A) Ritche	A) Ritche B) Guido Van Rossum C) Bill Gates D) Sunder Pitchai							
6 Which statement is generally used as a placeholder?								
A) continue	B) break	C) pass D) goto		D) got	o			
7. Which of the following keyword is used to define the function testpython(): ?								
(a) Define	(b) pass		(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) ^^		(d) ^^				
9. Let $setA=\{3,6,9\}$, $setB=\{1,3,9\}$. 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) \$\$n	um	(d) &8	knum			
11. O(n) is an example of								
(a) best case	(b) Average case	(c) wo	rst case	(d) Nu	ll case			

12. What is the output for the following?

	(a) 25	(b) 50	(c) 24<25	(d) 0		
13 V	What is the output	from the following	statement?			
	Str1="welcome"					
	Print(str[::3])					
	(a) Come	(b) ome	(c) wce	(d) wel		
14. Iı	n list=[10,23,41,7	5] , the negative ind	ex value of 41 is			
	(a) 2	(b) -1	(c) -2	(d) -3		
15. Iı	n python, constru	ctor must begin and	d end with			
	(a) – and	(b) and	(c) ++ and ++	(d) +- and -+		
		1	PART – B			
Answ	Answer the any 6 in the following questions $6x2=12$					
Q.No	: 22 is compulso	ory				
16. D	Differentiate interfac	e and implementation.				
17. What is a Tuple? Give an example.						
18. H	Iow Python represer	nts the private and pro	tected Access specific	ers?		
19. V	What is searching? W	Vrite its types.				
20. V	What is a literal? Exp	plain the types of litera	als?			
21. V	Vrite note on range (() in loop				
22. H	low to set the limit f	For recursive function?	Give an example.			
23. V	What is slicing?					
24. V	Vhat is instantiation	?				
		1	PART – C			
Answ	ver the any 6 in t	the following quest	tions	6x3=18		
Q.No	: 31 is compulso	ory				
25. V	Why strlen is called p	oure function?				
26. Id	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) $x=[2, 5, 6.5, [5, 6], 8.2]$					
	(f) employee [end	o, ename esal eaddres	ss]			
27. D	Define Enclosed scop	e with an example.				
28. V	Vrite a note on Asyn	nptotic notation.				
29. V	Vrite short notes on	Escape sequences with	h examples.			

30. List the differences between break and continue statements.

31. Differentiate ceil() and floor() function?

M=25 if 24<25 else 50

32. Write a Python program to display the given pattern COMPUTER COMPUTE COMPUT COMPU COMP COMCO \mathbf{C} 33. Explain the difference between del and clear() in dictionary with an example. PART - D**Answer the following:** 5x5 = 2534. 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 \leq b = ",a \leq 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? Prepared by M. Poovendiran ., M.Sc., M.Phil., B.Ed., PGDCA PG Asst in Computer Science

Paramveer Matric Hr. Sec School, pauparapatti.