Model Quarterly Examination 2022

Std: XII	Time : 3:00Hrs
Subject : Computer science Total marks:	
Choose the correct answer	1 * 15 = 15
1. The variables in a function definition are called as	
(A) Subroutines (B) Function (C) I	Definition (D) Parameters
2.sequence of immutable objects is called	
(A) Built in (B) List (C) Tuple (D)	Derived data
3. Which of the following security technique th	at regulates who cause resources in a
computing environment?	
(A) Password (B)Authentication (C) A	Access control (D) Certification
4. Which of the following members of a class can be l	nandled only from within the class?
(A) Public members (B)Protected mem	bers (C) Secured members
(D) Private members	
5. Time complexity of bubble sort in best case is	
(A) θ (n) (B) θ (nlogn) (C) θ (n2)	(D) θ (n(logn) 2)
6.The word comes f om the name of a Persian mathe	matician Abu Ja'far Mohammed ibn-iMusa
al Khowarizmi is called?	
(A) Flowchart (B) Flow (C) Algorit	hm (D) Syntax
7 Which of the following is not a Keyword in Python	?
A) break B) while C) continue D) of	pperators
8Which of the following charac er s used to give co	omments in Python Program ?
A) # B) & C) @ D) \$	
9. What plays vital role in Python programming?	
A) Statements B) Control C) Se	tructure D) Indentation
10. Which statement is generally used as a placeholde	r?
A) continue B) break C) pass	D) goto
11. Which function is called anonymous un-named fu	nction
(a) Lambda (b) Recursion (c) I	Function (d) define
12. Which of he following keyword is used to define	the function testpython(): ?
(a) define (b) pass (c) def (d) w	hile

13. Which of the following is used as placeholders or replacement fields which get replaced						
along with format()	function?					
(a) { }	(b) <>	(c) ++	(d) ^^			
14. Which of the following is the sl cing operator?						
(a) { }	(b) []	(c) <>	(d)()			
15. Which of the following Python function can be used to add more than one element within an						
existing list?						
(a) append()	(b) append_m	ore()	(c)extend()	(d) more()		
Part II						
Answer any Six questions .Question no 24 is compulsory				6 * 2	= 12	
16. What is a subrou	ıtine?					
17. What is abstract	data type?					
18. What is Mapping	g?					
19. Define Pseudo c	ode					
20. Write short note	s on Exponent	data?				
21. What are the ma	in advantages	of function?				
22. Write note on br	eak statement.					
23. What is the purpose of Destructor?						
24.Using ifelseelif statement write a suitable program to display largest of 3 numbers.						
Part III						
Answer any Six qu	estions .Quest	ion no 33 is c	compulsory		6 * 3 =	: 18
25.Identify Whi h o (a) arr [1, 2, 3	of the following 34] (b) arr (1, 2					
(d) day= ('su	n', 'mon', 'tue	', 'wed') (e) x	x = [2, 5, 6.5,	[5, 6], 8.2]		
(f) employee	[eno, ename, e	esal, eaddress]				
26. Write a note on .	Asymptotic no	tation				
27. Why access contra	rol is required?	•				
28.Write short notes	on Escape sec	quences with e	examples.			
29.Differentiate ceil	() and floor() f	function?				

31. What is the purpose of Destructor?	
32. What are the factors that influence time and space complexity.	
33. Write a Python program to display the given pattern	
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Part IV	
Answer all the questions: 5	* 5 = 25
34. What are called Parameters and write a note on (i) Parameter without Type (ii) Parameter with Type OR	
Explain the types of scopes for variable or LEGB rule with example.	
35. Explain the characteristics of an algorithm. OR	
Explain input() nd print() functions with examples.	
36. Write a detail note on for loop OR Explain the following built-in functions.	
(a) id() (b) chr() (c) round() (d) type() (e) pow()	
37. What the different ways to insert an element in a list. Explain with suitable OR	e example
Explain the different set operations supported by python with suitable exa	mple
38. Write a program using class to accept three sides of a triangle and print its OR	area.
Explain the concept of Dynamic programming with suitable example.	
M.M.Higher Secondary School	

30 .What is the use of format()? Give an example