12 R

Register no: 1225 B1

QUARTERLY EXAMINATION - 2024 COMPUTR SCIENCE

Time: 3.00 Hours

PART - 1

15	X	1	=	1	5
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Α	nswer all the que	stions.					4		
1.	Which of the following defines what an object can do?						(4) Compiler		
	(a) Operating Syst	verating System (b) Interpreter (c) Interface			(d) Compiler				
2.	The data structure which is a mutable ordered sequence of elements is called.								
	(a) Build in	(b) List	(c) Tuple	(d) D	erived da	nta			
3.	Containers for ma	pping nar	lled	Manualla fe					
	(a) Scope	(b) Mapping			inding	1	(d) Function Scope		
4.	Two main measures for the efficiency of an algorithm are								
	(a) Processor and memory (b) Complexity and capacity								
	(c) Time and space		(d) Data and		•				
5.	5. The Python prompt indicates that Interpreter is ready to accept instruction.								
	(a) >>>	(b) <<<		(c)#		(d) <<			
6.	Which of the follow	ving is no	t Logical ope	rator?			•		
	(a) and (b) or		(c) not	(d) A	ssignme	nt			
7.	7. What plays a vital role in Python programming?								
	(a) Statements	(b) Cor	ntrol	(c) S	tructure		(d) Indentation		
8.	A Function which calles itself is called as								
	(a) Build-in	(b) Recursion (c) Lambda			(d) return				
9.	9. Pick the correct one to execute the given statement successfully								
	(a) x%2=0			(d) $x\%4=0$					
10.	Which of the follow	ving oper	ator is used	for conca	tenation?	,			
	(a) +	(b) &	(c)	•	(d) =				
11.	The subscipt of a s	string ma	y be:						
	(a) Positive (b) Negative (c) Both (a) &(b) (d) Either (a) or (b)								
12.	list1=[1,2,3,4], ther	print(Lis	st[-2]) will res	sult in					
	(a) 1	(b) 2	(c)		(d) 4	è			
13.	s=(x**2 for x in ran								
	(a) [0,1,2,3,4]	(b) [1,2	3.4.51	(a)	0,1,4,9,1	61	(d) [2,4,6,8,10]		
14	Which of the follow		•			-			
14.									
4.5	(a)_object_()	(b) _de			_func_()	-1,	(d)init()		
15.	The process of cre	aung an			1,000,000				
	(a) Constructor		(b) Destruc	tor	(c) I	nitialize	(d) Instantiation		

 $6 \times 2 = 12$

 $6 \times 3 = 18$

 $5 \times 5 = 25$

PART - II

Answer any six questions. Q.No. 24 is Compulsory

- 16. What is a subroutine?
- 17. What is a Tuple? Give an example.
- 18. What do you mean by Namespaces?
- 19. What are the different modes that can be used to test Python Program?
- Write the syntax of if...else statement.
- Write the different types of function
- What will be the output of the following python code? str1="school" print(str1*3)
- What will be the value of x in following python code? list1=[2,4,6[1,3,5]] x=len(list1)
- 24. What is class?

PART - III

Answer any six questions. Q.No. 33 is Compulsory

- 25. Why strlen is called pure function?
- 26. Which strategy is used for program design? Define the Strategy
- 27. Why access control is required?
- 28. List the characteristics of an algorithm.
- 29. Explain Ternary operator with examples.
- 30. List the Differences between break and continue statements.
- 31. Write a short notes about the following with suitable example:
 - (a) capitalize()
- (b) swapcase()
- 32. What are the difference between List and Dictionary?
- 33. Write a Python code to check whether a given year is leap year or not.

PART - IV

Answer all the questions.

- 34. Explain with example Pure and impure functions. What is List? Why List can called as Pairs. Explain with suitable example
- 35. Explain LEGB rule with example. (OR) Write any five benifits in using modular programming
- 36. What is Binary search? Discuss with example. (OR)
 - Explain input() and print() functions with examples.
- 37. Explain about string operators in python with suitable example. (OR) What is the purpose of range()? Explain with an example.
- 38. Explain in different set operations supported by python with suitable example. (OR) Explain about constructor and destructor with suitable example.

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