MODEL QUARTERLY EXAMINATION

CLASS   :   12   **TYPE:C**   MARKS : 70
SUBJECT: COMPUTER SCIENCE   TIME   : 3 HRS

I.   CHOOSE THE CORRECT ANSWER: 15 X 1 = 15

1.   The small sections of code that are used to perform a particular task is called
     (A) Subroutines (B) Files   (C) Pseudo code   (D) Modules
2.   The functions which cause side effects to the arguments passed are called
     (A) Impure function   (B) Partial Functions
     (C) Dynamic Functions   (D) Pure functions
3.   The data type whose representation is known are called
     (A) Built in data type   (B) Derived data type
     (C) Concrete data type   (D) Abstract data type
4.   Which of the following is used in programming languages to map the variable and object?
     (A) ::   (B) :=   (C) =   (D) ==
5.   The process of subdividing a computer program into separate sub-programs is called
     (A) Procedural Programming   (B) Modular programming
     (C)Event Driven Programming (D) Object oriented Programming
6.   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 space
7.   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
8.   Which of the following character is used to give comments in Python Program ?
     (A) #   (B) &   (C) @   (D) $
9.   Which statement is generally used as a placeholder?
     (A) continue   (B) break   (C) pass   (D) goto
10. Which of the following is known as definite loop?
     (A) do..while   (B) while   (C) for   (D) if..elif
11. In which arguments the correct positional order is passed to a function?
     (A) Required   (B) Keyword   (C) Default   (D) Variable-length
12. Which of the following operator is used for concatenation?
     (A) +   (B) &   (C) *   (D) =

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13. If List=[17,23,41,10] then List.extend([32,56]) will result
    (A) [32,56,17,23,41,10]   (B) [56,3217,23,41,10]
    (C) [17,23,41,10,32,56]   (D) [41,32,56,23,17,10]
14. What will be the result of the following Python code?
    S=[x**3 for x in range(5)]
    print(S)
    (A) [0,1,6,9,12]   (B) [0,1,8,27,64] (C) [1,6,9,12,15]   (D) [3,6,9,12,15]
15. Which of the following method is used as destructor?
    (A) __init__( )   (B) __dest__( )   (C) __rem__( )   (D) __del__( )

II. Answer the following questions: (Any 6)
Q.No:24 Compulsory   6 X 2 = 12

16. Differentiate interface and implementation.
17. Differentiate constructors and selectors.
18. What is a Tuple? Give an example.
19. What is searching? Write its types.
20. What are the different operators that can be used in Python?
21. Write is the syntax of if..elif statement
22. Write the different types of function.
23. Write rules of local scope.
24. What will be the value of S in following python code?
    List1=[2,4,6,8,10[1,3,5,7,9]]
    S=len(List1)
    print(S)

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III. Answer the following questions: (Any 6)
Q.No:33 Compulsory   6 X 3 = 18

25. Differentiate Concrete data type and abstract datatype.
26. Define Enclosed scope with an example.
27. Discuss about Algorithmic complexity and its types.
28. Explain Ternary operator with examples.
29. Write the syntax of while loop.
30. What is composition in functions?
31. What is the use of format( )? Give an example.
32. Write about pop() and clear().
33. What will be the output of the following code?
    list = [3**x for x in range(1,5,2)]
    print(list)

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IV. Answer in Detail: 5 X 5 = 25

34. Explain the types of Parameters.   (OR)
     Explain the types of scopes for variable or LEGB rule with example.
35. Describe in detail the procedure Script mode programming.   (OR)
     Write a detail note on for loop.
36. Explain the different types of function with an example.   (OR)
     Explain about string operators in python with suitable example.
37. What is a List? Why List can be called as Pairs. Explain with suitable
     example.   (OR)
     Explain about constructor and destructor with suitable example.
38. What the different ways to insert an element in a list. Explain with
     suitable example.   (OR)
     Explain the Set operators supported by Python with example.

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