SECOND REVISION TEST – 2023
COMPUTER SCIENCE

12 - STD

TOTAL MARK : 70

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

1.   The Functions which will give exact result when same arguments are passed are called ----
     (a) Impure functions (b) Partial functions (c) Pure functions (d) Dynamic functions

2.   The members that are accessible from within the class and also available to its subclasses is called ____
     (a) Public members (b) Protected members (c) Secured members (d) Private members

3.   From the following sorting algorithms which has the lowest worst case complexity?
     (a) Bubble sort   (b) Quick sort   (c) Merge sort   (d) Selection sort

4.   Which operator is also called as comparative operator?
     (a) Arithmetic   (b) Relational   (c) Logical   (d) Assignment

5.   elif can be considered to be short form of ---
     (a) else if   (b) nested if   (c) if... elif   (d) if... else

6.   Which function is called as anonymous un named function?
     (a) recursion   (b) lambda   (c) define   (d) builtin

7.   Which of the following is the output of the following pythoncode?
     Str1="TamilNadu"
     Print(str[::-1])
     (a) Tamilnadu   (b) Tmlau   (c) udanlimaT   (d) udaNlimaT

8.   What will be the result of the following python code?
     S[x**2 for x in range(5)]
     Print (s)
     (a) [0,1,2,4,5]   (b) [0,1,4,9,16]   (c) [0,1,4,9,16,25]   (d) [1,4,9,16,25]

9.   Which of the following method is used as destructor?
     (a) __ rem __()   (b) __ init __()   (c) __ del __() (d) __dest__()

10. What type of relationship does hierarchial model represents?
     (a) one to one   (b) one to many   (c) many to one   (d) many to many

11. The clause used to sort data in a database.
     (a) GROUP BY   (b) SORT BY   (c) SELECT   (d) ORDER BY

12. The expand of CRLF is:
     (a) Carriage Router and Line Feed
     (b) Control Return and Line Feed
     (c) Carriage Return and Line Feed
     (d) Carriage Return and Form Feed

13. A Framework for interlacing Python and C++ is :
     (a) Cython   (b) Ctypes   (c) Boost   (d) SWIG

14. Which of the following function retrieves the average of a selected column of rows in a table?
     (a) Add( )   (b) Sum( )   (c) Avg ( )   (d) Average( )

15. Which key is used to run the module?
     (a) F6   (b) F4   (c) F3   (d) F5

II.   ANSWER ANY 6 TWO MARKS (Q. NO : 24 IS COMPULSORY)   **6 X 2 = 12**

16. Define Function with respect to Programming language.
17. What do you mean by Namespaces?
18. What is Searching? write its types.

19. How will you access the list elements in reverse order?
20. What is CSV file?
21. Differ Unique and Primary key constraint.
22. List the general types of data visualization.
23. What will be the output of the following python code?
    Str1 ="Computer"
    Print(Str1 * 4)
24. Write the syntax of getopt.getopt method.

III.   ANSWER ANY 6 THREE MARKS (Q. NO : 33 IS COMPULSORY)   6 X 3 = 18

25. Which strategy is used for program designing? Define that strategy.
26. Write a note on Asymptotic notation.
27. List the difference between break and continue.
28. Write a note on differ types of DBMS users.
29. What is the differ between write mode and append mode.
30. What is the use of 'where clause'? Give a python statement using the where clause.
31. What is the advantage of declaring a column as " INTEGER PRIMARY KEY"
32. Write short notes on Arithmetic Operator with example.
33. Write a program to get the following output:
    1
    1 2

    1 2 3

    1 2 3 4

IV.   ANSWER ALL THE QUESTION   5 X 5 =25

34. (i) What are called Parameters?
    (ii) Write a note on: Parameter with type and Parameter without type.
                    (OR)
    Explain LEGB Rule with an example.
35. What is Binary Search? Discuss with examples.
                    (OR)
    Explain the *types of function* with an example.
36. Describe in detail the procedure Script mode programming.
                    (OR)
    Write a program to display multiplication table for a given number.
37. Tabulate the different mode with its meaning.
                    (OR)
    Explain types of constraints and their functions.
38. Write in brief about SQLite and the steps used to use it.
                    (OR)
    Explain the different set operations supported by python with suitable example.