T

FIRST REVISION TEST, JANUARY - 2020

Thirunelveli Dist **STANDARD - XII**

Time : 3.00 hrs   **COMPUTER SCIENCE**   Marks: 70

Part - A

I. **Choose the mose appropriate answer:-**   15×1=15

1) Which of the following is a distinct syntactic block?
   a) Subroutines   b) Function   c) Definition   d) Module

2) Which is the compound structure?
   a) Pair   b) Triplet   c) Single   d) quadrant

3) What is called as a part of program?
   a) Module   b) Mapping   c) Namespaces   d) Scoping

4) How many asymptotic notations are mostly used?
   a) 1   b) 2   c) 5   d) 3

5) Who developed Python Programming Language?
   a) Ritche   b) Guido Van Rossum
   c) Bill gates   d) Bjarne strastrup

6) How many types of looping constructs are in Python?
   a) 2   b) 4   c) 3   d) 5

7) Anonymous Function is also called as _____
   a) Iterative   b) Lamba   c) Recursive   d) User defined

8) The subscript of a string may be _____
   a) Positive   b) Negative   c) Both a and b   d) Either a and b

9) The keys in Python dictionary is specified by _____
   a) : colon   b) ; semicolon   c) + plus   d) = equal to

10) A Table is known as _____
    a) tuple   b) attribute   c) Relation   d) Entity

11) Which key is used to run the module?
    a) F6   b) F5   c) F2   d) F3

12) A framework for interfacing python and C++ is ____
    a) C types   b) SWIG   c) Cython   d) Boost

13) A CSV file is a _____
    a) string file   b) text file   c) 3D file   d) Random file

14) The command to delete a table is
    a) DROP   b) DELETE   c) ALTER TABLE   d) DELETE ALL

15) What is the output of the following function?
    >>> print (bin (15))
    a) 1001bo   b) ob1001   c) ob1111   d) 11101bo

II. Answer any six questions, in which qn.no. 24 is compulsory:-   6×2=12

16) Who is an Algorist?

17) What do you mean by Namespaces?

18) Define String Literals.

19) Define Pass statement.

20) Write the output of the following Python Code

```
>>> Even_list = list (range (2,11,2))
>>> print (Even_list)
```

21) What is the purpose of destructor?

22) What is normalization?

23) Mention the users who uses the Database.

24) What is the use of Cd Command? Give example.

III. Answer any six questions, in which qn.no. 32 is compulsory:-   6×3=18

25) Define Constructors and Selectors.

26) List the characteristics of an Algorithm.

27) Differentiate Ceil ( ) and floor ( ) function.

28) What is String Concatenation? Give an example.

29) What are the advantages of Tuples over a list?

30) Give the syntax for csv.writer ( )

31) Identify the module, operator, function name in the statement given below.
welcome.display ( )

32) Write a python program to find sum of all averages in the average field of "Student table".

33) List the types of Visualization in Matplotlib.

IV. Answer all the questions:-   5×5=25

34) a) Explain with example Pure and Impure Functions.   **[or]**

     b) Explain the concept of Dynamic Programming with example.

35) a) i) Give the syntax for User define function and explain it.

       ii) What are the advantages of User define function.   **[or]**

     b) Write a program to display all 2 digit even numbers.

36) a) Explain different set operations supported by Python.   **[or]**

     b) Write a python program to calculate area and perimeter of a rectangle using class.

37) a) Explain Relational Algebra Operators in DBMS.   **[or]**

     b) Write different methods to read a file in Python.

38) a) Write the syntax for getopt ( ) and explain its arguments and return values.

                            [or]

     b) Write in brief about SQLite and Give the steps to use it.

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