# STUDENT'S - 100

# FULL PORTION MODEL QUESTION PAPER - 3

# 12 - COMPUTER SCIENCE

**Time : 3 Hrs.**　　　　　　　　　　　　　　　　　　**Marks : 70**

## PART : I

*Note:* ( I )　　**All the questions are compulsory.**　　　　*15 x 1 = 15*

( II )　　**Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.**

1. Which of the following is a distinct syntactic block?

    a)　Function　b)　Definition　　c)　Subroutines　d)　Modules

2. Which of the following is a theoretical performance analysis of an algorithm?

    a)　Space complexity　　　　　b)　Time complexity

    c)　Posteriori testing　　　　　d)　Priori estimates.

3. _____ character is used to give comments in python program.

    a)　&　　　b)　$　　　　c)　#　　　　　d)　@

4. Which statement is generally used as a place holder?

    a)　break　b)　pass　　c)　goto　　d)　continue

5. Which of the following is the output of the following code?

    Str = "MaDUraI"

    Print (str [ : : -2 ] )

    a)　Madurai　b)　IrDM　　c)　IarUDaM　d)　MDrI

6. _____ function is used to count the number of elements in a list.

    a)　count ( )　b)　find ( )　　c)　index ( )　　d)　len ( )

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7. The process of creating an object is _____

    a) Constructor                 b) Instantiation

    c) Initialize                    d) Destructor

8. A column is known as _____

    a) Relation    b) Tuple        c) Attribute      d) Entity

9. _____ constraint is used to allow only the restricted values on the field.

    a) Unique constraint            b) Default constraint

    c) Check constraint             d) Primary key constraint

10. _____ mode is used when dealing with non-text files like image or exe files.

    a) Text      b) Binary       c) xls          d) CSV

11. The expansion of API is

    a) Application programming Interpreter

    b) Application programming Interface

    c) Application Programming Interlink

    d) Application performing Interface

12. _____ executes the SQL command to perform some action.

    a) run ()    b) key ( )     c) cursor ( )      d) execute ( )

13. Which key is used to run the module?

    a) F6      b) F4         c) F3          d) F5

14. Which of the following is the private class variable.

    a) $$ num    b) && num    c) _ _ num      d) # # num

15. _____ keyword is used to eliminate duplicate rows in the table.

    a) ALL      b) IN         c) NOT BETWEEN   d) DISTINCT

## PART : II

*Answer any SIX questions. ( Question No. 24 is Compulsory )*        *6 x 2 = 12*

16.    Write the inference you get from x:= (78)

17.    What do you mean by Name spaces.

18.    Define: Pseudo code.

19.    Write a short note on Tokens.

20.    What are the main advantages of function?

21.    How will you access the list elements in reverse order?

22.    Mention the two ways to read a CSV file using python.

23.    Define: Data visualization and list out its types.

24.    Write a note about replace () function with an example .

## PART : III

*Answer any SIX questions. ( Question No. 33 is Compulsory )*        *6 x 3 = 18*

25.    Write short notes on Escape sequences with example.

26.    List the difference between break and continue statements with an example.

27.    What happens when we modify global Variable inside the function?

28.    What will be the output of the following code?

        List = [2* * x for x in range (5) ]

        Front ( list )

29.    Write the use of SAVEPOINT command with an example.

30.    Write a note an open() function of python. What is the difference between the two methods.

31.    Differentiate : PYTHON and C++

32.    Write any three uses of data visualization?

33.    Write a python program to display the given pattern.

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# PART : IV

*Answer all the questions.*                                      *5 x 5 = 25*

34.  a)  Explain the types of scopes for variable or LEGB rule with example.

(or)

     b)  Explain the characteristics of an algorithm.

35.  a)  Describe in detail the procedure script mode programming.

(or)

     b)  Explain the different set operations with example.

36.  a)  Write the different types of constraints and their functions.

(or)

     b)  Tabulate the different mode with its meaning.

37.  a)  Write the python script to display all the records of the following table using "fetch many ( )".

| Item Code | Item Name | Rate |
|-----------|-----------|------|
| 1003 | Scanner | 10500 |
| 1004 | Printer | 3000 |
| 1005 | Speaker | 8000 |
| 1008 | Monitor | 15000 |
| 1010 | Mouse | 700 |

(or)

     b)  Explain the various buttons in a matplotlib window.

38.  a)  Explain each word of the given command.

         Python <filename.py> - < i > < C++ file name without cpp extension >

(or)

     b)  Write a SQL statement to create a table for employee having any five fields and create a table constraint for the employee table.

ALL THE BEST