12ᵗʰ STD: Revision Test - 3   **COMPUTER SCIENCE**   **Time: 3 Hrs / Total Marks: 70**

I. Choose The Correct Answer: [15 x 1 = 15]

1. Which of the following is not Logical operator?

    A) and   B) or   C) not   D) Assignment.

2. The Python prompt indicates that Interpreter is ready to accept instruction.

    A) >>>   B) <<<   C) #   D) <<

3. elif can be considered to be abbreviation of

    A) nested if   B) if..else   C) else if   D) if..elif

4. The condition in the if statement should be in the form of

    A) Arithmetic or Relational expression   B) Arithmetic or Logical expression

    C) Relational or Logical expression   D) Arithmetic

5. Which of the following keyword is used to begin the function block?

    (A) define   (B) for   (C) finally   (D) def

6. A Function which calls itself is called as

    (A) Built-in   (B) Recursion   (C) Lambda   (D) return

7. Which commands provide definitions for creating table structure, deleting relations, and modifying relation schemas.

    (A). DDL   (B). DML   (C). DCL   (D). DQL

8. The command to delete a table is

    A) DROP   B) DELETE   C) DELETE ALL   D) ALTER TABLE

9. The expansion of CRLF is

    (A) Control Return and Line Feed   (B) Carriage Return and Form Feed

    (C) Control Router and Line Feed   (D) Carriage Return and Line Feed

10. Which of the following module is provided by Python to do several operations on the CSV files?

    (A) py   (B) xls   (C) csv   (D) os

11. Importing C++ program in a Python program is called

    (A) wrapping   (B) Downloading   (C) Interconnecting   (D) Parsing

12. A framework for interfacing Python and C++ is

    (A) Ctypes   (B) SWIG   (C) Cython   (D) Boost

13. Which of the following is an organized collection of data?

    (A) Database   (B) DBMS   (C) Information   (D) Records

14. 14.SQLite falls under which database system?

   (A) Flat file database system   (B) Relational Database system

   (C) Hierarchical database system   (D) Object oriented Database system

15. Identify the package manager for Python packages, or modules.

   (A). Matplotlib   (B). PIP   (C). plt.show()   (D). python package

II. Answer any 6 of the following questions: [6 x 2 = 12]

   Question number 19 is compulsory

16. What are the different operators that can be used in Python?

17. Write note on range () in loop

18. Define global scope.

19. Differentiate Unique and Primary Key constraint.

20. What is CSV File?

21. Differentiate compiler and interpreter.

22. Which method is used to connect a database? Give an example.

23. Define: Data Visualization.

24. List the general types of data visualization.

III. Answer any 6 of the following questions: [6 x 3 = 18]

   Question number 26 is compulsory

25. Explain Ternary operator with examples.

26. Using if..else..elif statement write a suitable program to display largest of 3 numbers.

27. Write a Python code to check whether a given year is leap year or not.

28. What is a constraint? Write short note on Primary key constraint.

29. Write a Python program to modify an existing file.

30. What are the applications of scripting language?

31. Mention the difference between fetchone() and fetchmany()

32. Write any three uses of data visualization.

33. Draw the output for the following data visualization plot.

   import matplotlib.pyplot as plt

   plt.bar([1,3,5,7,9],[5,2,7,8,2], label="Example one")

   plt.bar([2,4,6,8,10],[8,6,2,5,6], label="Example two", color='g')

```
plt.legend()

plt.xlabel('bar number')

plt.ylabel('bar height')

plt.title('Epic Graph\nAnother Line! Whoa')

plt.show()
```

IV. Answer the following questions: [5 x 5 = 25]

34. a. Explain input() and print() functions with examples.

[OR]

b.Write a program to display multiplication table for a given number.

35. a. Explain the scope of variables with an example.

[OR]

b. Write the different types of constraints and their functions.

36. a. Tabulate the different mode with its meaning.

[OR]

b. Write any 5 features of Python.

37. a. Write the Python script to display all the records of the following table using fetchmany()

Icode	ItemName	Rate
1003	Scanner	10500
1004	Speaker	3000

[OR]

b. Explain in detail the types of pyplots using Matplotlib.

38. a. Explain recursive function with an example.

[OR]

b. Write a detail note on for loop

---ALL THE BEST---