Class : 12

Register Number ☐ ☐ ☐ ☐ ☐ ☐

SECOND REVISION EXAMINATION - 2025

COMPUTER SCIENCE

Time Allowed : 3.00 Hours]   [Max. Marks : 70

PART - I

Note : i) All the questions.   **15X1 = 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 unit of code that is often defined within a greater structure?

 a) subroutines b) Function c) Files d) Modules

2. Bundling two values together into one can be considered as

 a) Pair b) Triplet c) Single d) Quadrat

3. Which members are accessible from outside the Class?

 a) Private b) Protected c) public d) Secured

4. Linear search is also called as

 a) Binary Search   b) Sequential Search

 c) Random search   d) Half interval search

5. Which of the following key is to be pressed to run python script?

 a) F2 b) F5 c) Ctrl + S d) Ctrl + N

6. How many important control structures are there in python?

 a) 3 b) 4 c) 5 d) 6

7. A Function which calls itself is called as -----------

 a) Built in b) Lambda c) Return d) Recursion

8. Which of the following is the Slicing Operator?

 a) [ ] b) { } c) <> d) .

9. Pick odd one in connection with collection of Data type

 a) List b) Tuple c) Loop d) Dictionary

10. The process of Creating an object is called as

 a) Constructor b) Destructor c) Initialize d) Instantiation

11. Who developed ER Model?

 a) Chen b) EF codd c) EF Cadd d) Chand

12. Queries can be generated using

 a) Alter b) Select c) Order by d) Group by

13. Which of the following creates an object which maps to a dictionary?

 a) List reader ()   b) reader ()

 c) Tuple reader ()   d) Dict Reader ()

14. A Framework for interfacing python and C++ is

 a) C type b) SWIG c) Cython d) Boost

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15. Which of the following is an organized collection of Data?

   a) DBMS   b) Information   c) Data base   d) Records

PART - II

II. Answer any six questions. Question No. 24 is compulsory.   6x2=12

16. What is abstract Data type?

17. What is Searching? Write its types?

18. Write the Different types of Function?

19. Write the difference between Table constraint and Colum Constraint.

20. Differentiate Compilor and Interpreter.

21. Which method is used to Fetch all rows from the database table?

22. List the General types of Data Visualization.

23. Write advantages of DBMS.

24. What will be the output of the given python program.

     str = "COMPUTER SCIENCE"

         a) Print (str * 3)

         b) Print (str (0:7))

PART - III

III. Answer any six questions. Question No. 33 is compulsory.   6x3=18

25. Define Local Scope with an Example?

26. What is an Algorithm? List any three characteristics of an algorithm.

27. What are the Advantages of Tuples over a List?

28. What is the Use of 'Where Clasue' Give a python statement using the where Clause?

29. What is the Difference between Fetch one () and Fetch many ().

30. Write a python code to check whether a given year is leap year or not.

31. Explain Ternary Operator with Example.

32. Write short notes on TCL commands in SQL.

33. **Write short notes on**   a) Capitalize ()   b) Swapcase ()

PART - IV

IV. Answer All questions.   5x5=25

34. a) How will you facilitate data abstraction? Explain it with suitable example.   (OR)

     b) What is Binary Search? Explain it with Example.

35. a) **Explain the following built in function.**

        i) id   ii) chr   iii) round   iv)type   v) pow   (OR)

     b) Explain about string operators in python.

36. a) What is Nested Tuple? Explain with an Example.   (OR)

     b) Explain the Different types of Relationship mapping?

37. a) Write the difference between Histogram and Bargraph.   (OR)

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

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

     b) Explain about Constructor and Destructor with suitable example.

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