

V12CS

Virudhunagar District
Second Revision Exam, February - 2025

Standard 12 COMPUTER SCIENCE

Time: 3.00 Hours

Marks: 70

PART - I

I Answer all the questions

15 x 1 = 15

1. The function which will give exact result when same arguments are passed are called
a) Impure functions b) Partial functions c) Dynamic functions d) Pure functions
2. Which of the following functions that build the abstract data type?
a) Constructors b) Destructors c) Recursive d) Nested
3. Which members are accessible from outside the class?
a) Public members b) Protected members c) Secured members d) Private members
4. Two main measures for the efficiency of an algorithm are
a) Processor and memory b) Complexity and capacity
b) Time and Space d) Data and space
5. The Python prompt indicates that Interpreter is ready to accept instruction
a) >>> b) <<< c) # d) <<
6. How many important control structures are there in Python?
a) 3 b) 4 c) 5 d) 6
7. Which function is called anonymous un-named function ?
a) Lambda b) Recursion c) Function d) define
8. The subscript of a string may be by
a) Positive b) Negative c) Both (a) and (b) d) Either (a) or (b)
9. Which of the following function is used to count the number of elements in a list?
a) Count() b) find() c) len() d) index()
10. Class members are accessed through which operator?
a) & b) . c) # d) %
11. A table is known as
a) tuple b) attribute c) relation d) entity
12. Queries can be generated using
a) SELECT b) ORDER BY c) MODIFY d) ALTER
13. Which of the following is a string used to terminate lines produced by writer() method of Csv module?
a) Line terminator b) key enter c) Form feed d) Data terminator
14. What does __name__ contain ?
a) C++ filename b) main() name c) Python filename d) OS module name
15. Which of the following is called the master table?
a) Sqlite_master b) sql_master c) main_maste d) master_main

PART - I

II Answer any 6 questions and question no.21 is compulsory

6 x 2 = 12

16. What do you mean by Namespaces?
17. What is Insertion sort?
18. List the control structures in Python
19. Write short notes on tokens.

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20. How to set the limit for recursive function? Give an example
21. What will be the value for x in the following python code

```
List1 = [2,4,6,[1,3,5]]
x = len(List1)
```
22. List some examples of RDBMS
23. What is the use of next() function?
24. Differentiate compiler and Interpreter

PART -III

III Answer any 6 questions and question no. 33 is compulsory 6 x 3 = 18

25. Define local scope with an example
26. Discuss about Algorithmic complexity and its types.
27. What are string literals? explain
28. Write the syntax of while loop
29. List out the set operations supported by Python
30. Write a python program to find total and average marks of 3 subjects using class
31. Write the use of SAVEPOINT command with an example
32. What are the applications of Scripting language?
33. Read the following details. Based on that write a python script to display department wise records.

Database Name	: organization.db	Table Name	: Employee
Columns in the table	: Eno, EmpName, Esalary, Dept		

PART -IV

IV Answer all the questions 5 x 5 = 25

34. What are called Parameters and write a note on
 (i) Parameter without Type (ii) Parameter with type
 (or)
 Explain the concept of Dynamic programming with suitable example
35. Tabulate with examples the various types of operators used in Python.
 (or)
 Write a Python program to display Fibonacci series 0,1,1,2,3,5,(upto n terms)
36. Explain the scope of variables with an example
 (or)
 Write a Python program to count the occurrence of each word in a given string.
37. Explain the different operators in Relational algebra with suitable examples
 (or)
 Write the rules to be followed to format the data in a CSV file.
38. Write the syntax for getopt() and explain its arguments and return values
 (or)
 Explain in detail the types of pyplots using Matplotlib