SALEM

# 12 - STD    FIRST REVISION EXAMINATION - 2023

TIME : 3.00 HRS    **COMPUTER SCIENCE**    MARKS : 70

15 x 1 = 15

## PART I
**ANSWER ALL THE QUESTIONS**
**CHOOSE THE CORRECT ANSWER**

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

2) Which of the following members of a class can be handled only from within the class?
  (a) Public members  (b) Protected members  (c) Secured members  (d) Private members

3) Which of the following is not a stable sorting algorithm?
  (a) Insertion sort  (b) Quick sort  (c) Merge sort  (d) Selection sort

4) Which of the following character is used to give comments in Python Program?
  (a) #  (b) &  (c) @  (d) $

5) Which statement is generally used as a placeholder?
  (a) continue  (b) break  (c) pass  (d) goto

6) Read the following statement and choose the correct statement(s).
  (I) In Python, you don't have to mention the specific data types while defining function.
  (II) Python keywords can be used as function name.
  (a) I is correct and II is wrong  (b) Both are correct  (c) I is wrong and II is correct
  (d) Both are wrong

7) What is stride?
  (a) index value of slide operation  (b) first argument of slice operation
  (c) second argument of slice operation  (d) third argument of slice operation

8) What is the use of type() function in python?
  (a) To create a Tuple  (b) To know the type of an element in tuple.
  (c) To know the data type of python object  (d) To create a list.

9) Functions defined inside a class:
  (a) Functions  (b) Module  (c) Methods  (d) section

10) What symbol is used for SELECT statement?
  (a) σ  (b) Π  (c) X  (d) Ω

11) A CSV file is also known as a ....
  (a) Flat File  (b) 3D File  (c) String File  (d) Random File

12) Which of the following mode is used when dealing with non-text files like image or exe files?
  (a) Text mode  (b) Binary mode  (c) xls mode  (d) csv mode

13) Which of the following is not a scripting language?
  (a) JavaScript  (b) PHP  (c) Perl  (d) HTML

14) Which of the following is a control structure used to traverse and fetch the records of the database?
  (a) Pointer  (b) Key  (c) Cursor  (d) Insertion point

15) Which is a python package used for 2D graphics?
  (a) matplotlib.pyplot  (b) matplotlib.plp  (c) matplotlib.numpy  (d) matplotlib.plt

## PART II
**ANSWER ANY SIX QUESTIONS**
**Q.NO 22 IS COMPULSORY**

6 x 2 = 12

16) What is Mapping?

17) Write short notes on Exponent data?

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18) Write note on range () in loop.

19) What are the main advantages of function?

20) Differentiate del with remove() function of List.

21) What is instantiation?

22) Differentiate Unique and Primary Key constraint

23) What is CSV File?

24) Differentiate compiler and interpreter.

PART III

ANSWER ANY SIX QUESTIONS

Q.NO β IS COMPULSORY  32

6 x 3 = 18

25) List the characteristics of an algorithm.

26) What are the points to be noted while defining a function?

27) What is the use of format()? Give an example.

28) How to define constructor and destructor in Python?

29) Explain Object Model with example.

30) Write the use of Savepoint command with an example.

31) What is the difference between the write mode and append mode.

32) Differentiate PYTHON and C++.

33) What is SQLite? What is it advantage?

PART 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)

35) Write any five benefits in using modular programming.

36) Explain input() and print() functions with examples.   (OR)

37) Write a detail note on for loop.

38) Explain the following built-in functions.   (OR)
   (a) id ()
   (b) chr ()
   (c) round ()
   (d) type ()
   (e) pow ()

39) Explain the different set operations supported by python with suitable example.

40) Explain the different types of data model.   (OR)

41) Consider the following employee table. Write SQL commands for the qtns.(i) to (v).

| EMP CODE | NAME | DESIG | PAY | ALLOWANCE |
|----------|------|-------|-----|-----------|
| S1001 | Hariharan | Supervisor | 29000 | 12000 |
| P1002 | Shaji | Operator | 10000 | 5500 |
| P1003 | Prasad | Operator | 12000 | 6500 |
| C1004 | Manjima | Clerk | 8000 | 4500 |
| M1005 | Ratheesh | Mechanic | 20000 | 7000 |

   (i) To display the details of all employees in descending order of pay.
   (ii) To display all employees whose allowance is between 5000 and 7000.
   (iii) To remove the employees who are mechanic.
   (iv) To add a new row.
   (v) To display the details of all employees who are operators.

42) Differentiate Excel file and CSV file.   (OR)

43) What is the purpose of sys, os, getopt module in Python. Explain.

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