

Tsi12CS

Tenkasi District

Common First Revision Test - January 2025



13-01-25

Standard 12
COMPUTER SCIENCE

Time Allowed: 3.00 Hours

Maximum Marks: 70

Part - I**I. Choose the best answer:****15×1=15**

- 1) The variables in a function definition are called as
a) Subroutines b) Function c) Defenition d) Parameters
- 2) Which of the following will retrieve informaiton from the data type?
a) Recursive b) Constructors c) Nested d) Selectors
- 3) Which key is pressed F0 execute Python Script?
a) F1 b) F5 c) F3 d) F2
- 4) The two main factors which decide the efficiency of an algorithm as _____
a) Processor and Memory b) Complexity and Capacity
c) Time and Space d) Data and Space
- 5) "elif" can be considered to be the abbreviation of
a) nested if b) if else c) else if d) if elif
- 6) The operator which is used for concatenation
a) * b) + c) = d) &
- 7) Which function is called as anonymous un-named function?
a) Recursion b) Lambda c) Define d) Built-in
- 8) _____ is used placeholders or replacement fields which get replaced along with format () function.
a) () b) < > c) ++ d) ^^
- 9) Pick odd one in connection with collection data type.
a) List b) Tuple c) Dictionary d) Loop
- 10) The process of creating an object is called as
a) Constructor b) Destructor c) Initialize d) Instantiation
- 11) Queries can be generated using
a) SELECT b) ORDER BY c) MODIFY d) ALTER
- 12) The expansion of CRLF is
a) Control Router and Line Feed b) Control Return and Link Feed
c) Carriage Return and Line Feed d) Carriage Return and Form Feed
- 13) A framework for interfacing Python and C++ is
a) Cython b) Ctypes c) Boost d) SWIG
- 14) Which of the following module should be imported to visualize and information in Python?
a) csv b) getopt c) mysql d) matplotlib
- 15) Which SQL function returns the number of rows in a table?
a) sum () b) max () c) CHECK () d) COUNT ()

Part - II**II. Answer any six of the following. Question No. 24 is compulsory: 6×2=12**

- 16) Define Constructors and Selectors.
- 17) Define Global Scope.
- 18) Write the different types of function.

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- 19) Define control structure.
- 20) What is instantiation?
- 21) What is the difference between SQL and MySQL?
- 22) Differentiate the unique and primary key constraint.
- 23) Write the applications of scripting languages.
- 24) What will be the output of the following python snippet?

```
str1 = "COMPUTER"
print (str1 [4:])
print (str1 [::3])
```

Part - III**III. Answer any six of the following. Question No. 33 is compulsory: 6×3=18**

- 25) Mention the characteristics of Interface.
- 26) Write note on Asymptotic notation.
- 27) What are string literals?
- 28) Write a note on if else structure.
- 29) Write a short note about sort ().
- 30) What are the difference between List and Dictionary?
- 31) What is the use of where clause? Give a Python statement by using where clause?
- 32) What is the role of DBA?
- 33) What will be the output of the following program?

```
str1 = "*"
i = 1
while i<=5:
    print (str1 * i)
    i+=1
```

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Part - IV**IV. Answer all the questions:****5×5=25**

- 34) a) Explain LEGB Rules with examples.

(OR)

- b) Write the Pseudo code for selection sort Algorithm.

- 35) a) Explain input () and print () functions with examples.

(OR)

- b) Explain the purpose of the following function.

(i) plt.xlabel (ii) plt.title (iii) plt.show()
(iv) plt.ylabel (v) plt.legend()

- 36) a) What is Nested Tuple? Explain with an example.

(OR)

- b) Explain the different types of relationship mapping.

- 37) a) What are the components of SQL? Write the comments for each.

(OR)

- b) Discuss the features of python over C++.

- 38) a) Explain the different set operations supported by python with suitable example.

(OR)

- b) Explain each word of the following command.

python < file name. py > - <i> <C++ file name with <pp extention>.