

VNR12CS

Virudhunagar District  
Second Revision Examination - 2024

**Standard 12**  
**COMPUTER SCIENCE**  
**Part - I**

Time: 3.00 Hours

Marks: 70

**I. Answer all questions.****15x1=15****Choose the correct answer.**

- 1) Which of the following carries out the instruction defined in the interface?
  - a) Operating system
  - b) Interpreter
  - c) Implementation
  - d) Compiler
- 2) Which of the following allow to name the various parts of multi-item object?
  - a) Tuples
  - b) pairs
  - c) Quadrants
  - d) Classes
- 3) The process of subdividing a computer program into separate sub-program is called
  - a) Procedural programming
  - b) Modular programming
  - c) Object oriented programming
  - d) Event driven programming
- 4) An estimation of the time and space complexities of an algorithm for varying input sizes is called
  - a) Algorithm analysis
  - b) Algorithmic strategy
  - c) Algorithmic solution
  - d) Algorithmic coding
- 5) Which of the following is not a logical operator?
  - a) in
  - b) and
  - c) or
  - d) not
- 6) In Python, which is required to indicate to which block of code the statement belongs to?
  - a) Statements
  - b) indentation
  - c) structure
  - d) control
- 7) In Python, which of the following functions is used to return the address of the object in memory?
  - a) type()
  - b) abs()
  - c) cell()
  - d) id()
- 8) Which of the following is used as replacement fields which get replaced along with format() function?
  - a) { }
  - b) < >
  - c) [ ]
  - d) ^ ^
- 9) What is the output of the following coding?
 

```
A = {1, 3, 6, 9}
B = {1, 3, 5, 7, 9}
print(A^B)
```

  - a) {1, 3, 5, 6, 7, 9}
  - b) {1, 3, 9}
  - c) {6}
  - d) {6, 5, 7}
- 10) Which of the following method is used as destructor?
  - a) \_init\_()
  - b) \_del\_()
  - c) \_dest\_()
  - d) \_rem\_()
- 11) Which of the following is a RDBMS?
  - a) Dbase
  - b) Microsoft Access
  - c) FoxPro
  - d) Foxbase
- 12) Find the odd one out,
  - a) INSERT
  - b) ALTER
  - c) UPDATE
  - d) DELETE
- 13) The expansion of API is
  - a) Application Programmer Interpreter
  - b) Application Programming interlink
  - c) Application Programming Instruction
  - d) Application Programming Interface
- 14) Which of the following control structure is used to traverse and fetch the records of the database?
  - a) Pointer
  - b) Cursor
  - c) Key
  - d) Execute
- 15) Which of the following module should be imported to visualize data and information in Python?
  - a) csv
  - b) sqlite 3
  - c) os
  - d) matplotlib

**II. Answer any 6 questions. Q.No. 24 is compulsory.**

- 16) What is a Pair? Give an example.
- 17) Differentiate Priori estimates and Posteriori testing.
- 18) Write short noets on tokens in Python.
- 19) List the different types of function arguments in Python.
- 20) What is the output of the following?  

```
str='1010'
print(str*3)
```
- 21) List the types of visualization in matplotlib.
- 22) How will you sort more than one column from a CSV file? Give an example satement
- 23) What is the advantage of declaring a column as "INTEGER PRIMARY KEY"?
- 24) Write a query that selects all students whose age is greater than 18 in order wise.

**Part - III****III. Answer any 6 questions. Q.No. 33 is compulsory.**

6x3=18

- 25) Differentiate pure and impure functions.
- 26) Define Enclosed scope with an example.
- 27) What are the assignment operators that can be used in Python?
- 28) Define: Control structures. List the control strucutres in Python?
- 29) What is a class? What is instantiation?
- 30) What is difference between Select and Project commands?
- 31) What is the difference between reader () and DictReader() functions in Python?
- 32) Differentiate Python and C++
- 33) Write the output of the following Python code.  

```
L1 = [2**x for x in range(1, 6)]
T1 = tuple (L1)
print(L1)
print(T1)
```

**Part - IV****IV. Answer all the questions.**

5x5=25

- 34) What are called Parameters? And write a note on
  - i) Parameter without Type
  - ii) Parameter with Type

**(OR)**

Explain the characteristics of an algorithm
- 35) Write a detail note on for loop in Python  

**(OR)**

Explain recursive function with an example
- 36) Explain about various string operators in Python with suitable example.  

**(OR)**

What are the different ways to insert an element in a list? Explain with suitable example.
- 37) Explain different types of relationship mapping.  

**(OR)**

Write a SQL statement to create a table for Employee having any five fields and create a table constraint for the employee table.
- 38) Explain each word of the following command.  

```
python<filename.py><-i> <C++ filename without extension>
```

**(OR)**

Write in brief about SQLite and the steps used to use it.

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