

TVL12CS

Tirunelveli District

Common First Revision Test - January 2024



Standard 12

COMPUTER SCIENCE

Part - A

Marks: 70

Time: 3.00 Hours

15×1=15

I. Answer all the questions. Choose the correct answer.

- 1) Which of the following are mandatory to write the type annotations in the function definition?
  - a) { }
  - b) ( )
  - c) [ ]
  - d) < >
- 2) The data type whose representation is unknown are called
  - a) Built in datatype
  - b) Derived datatype
  - c) Concrete datatype
  - d) Abstract datatype
- 3) Which of the following is used in programming languages to map the variable and object?
  - a) ::
  - b) ? =
  - c) =
  - d) ==
- 4) In dynamic programming, the technique of storing the previously calculated values is called?
  - a) Saving value property
  - b) Storing value property
  - c) Memorization
  - d) Mapping
- 5) Which of the following is not Logical operator?
  - a) and
  - b) or
  - c) not
  - d) Assignment
- 6) Which amongst this is not a jump statement?
  - a) for
  - b) pass
  - c) continue
  - d) break
- 7) Which function is called anonymous un-named function
  - a) Lambda
  - b) Recursion
  - c) Function
  - d) Define
- 8) Defining strings withig triple quotes allows creating:
  - a) Single line strings
  - b) Multiline Strings
  - c) Double line Strings
  - d) Multiple Strings
- 9) Which of the following statement is not correct?
  - a) A list is mutable
  - b) A tuple is immutable
  - c) The append() function is used to add and element.
  - d) The extend() function is used to tuple to add elements in a list
- 10) Which of the following is the private class variable?
  - a) \_num
  - b) ##num
  - c) \$\$num
  - d) &&num
- 11) A table is known as
  - a) tuple
  - b) Attribute
  - c) relation
  - d) entity
- 12) The clause used to sort data in a database
  - a) SORT BY
  - b) ORDER BY
  - c) GROUP BY
  - d) SELECT
- 13) Which of the following is a string used to terminate lines produced by writer() method of csv module?
  - a) Line Terminator
  - b) Enter key
  - c) Form feed
  - d) Data Terminator
- 14) A framework for interfacing Python and C++ is
  - a) Ctypes
  - b) SWIG
  - c) Cython
  - d) Boost
- 15) 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

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## Part - B

Answer to six questions. Question number 24 is compulsory.

6×2=12

- 16) Differentiate interface and implementation
- 17) What is a pair? Give an example
- 18) What is Mapping?
- 19) What is insertion sort?
- 20) What are the different operators that can be used in Python?
- 21) Write note on range() in loop
- 22) Define global scope
- 23) What is the difference between Hierarchical and Network data model?
- 24) Write a SQL statement using DISTINCT keyword.

## Part - C

Answer to six questions. Question number 33 is compulsory.

6×3=18

- 25) Why access control is required?
- 26) List the differences between break and continue statements.
- 27) What is the use of format()? Give an example.
- 28) What are the difference between List and Dictionary?
- 29) What is the difference between Select and Project command?
- 30) What is a constraint? Write short note on Primary key constraint.
- 31) Write a note on open() function of python. What is the difference between the two methods?
- 32) What is sys.argv? What does it contain?
- 33) Mention the difference between fetchone() and fetchmany()

## Part - D

Answer to all questions.

5×5=25

- 34) a) Write any five characteristics of Modules.  
(OR)  
b) Explain the characteristics of an algorithm.
- 35) a) Discuss in detail about Tokens in Python  
(OR)  
b) Write a detail note on if...else...elif statement with suitable example.
- 36) a) Explain the following built-in functions.  
• a) id()    b) chr()    c) round()    d) type()    e) pow()  
(OR)  
b) Explain about string operators in python with suitable example.
- 37) a) What the different ways to insert an element in a list. Explain with suitable example  
(OR)  
b) Explain the different types of data model
- 38) a) Write a SQL statement to create a table for employee having any five fields and create a table constraint for the employee table  
(OR)  
b) Explain the purpose of the following functions.  
a) plt.xlabel    b) plt.ylabel    c) plt.title    d) plt.legend()  
e) plt.show()