

Tsi12CS

Tenkasi District
First Revision Examination - 2024



02-02-2024

Standard 12
COMPUTER SCIENCE
Part - I

Time: 3.00 Hours

Marks: 70

Choose the correct answer:**15x1=15**

- 1) Which of the following is a distinct syntactic block?
a) Subroutines b) Function c) Definition d) Modules
- 2) The data type whose representation is unknown are called
a) Built - in data type b) Derived data type
c) Abstract data type d) Concrete data type
- 3) Which of the following character is used to give comments in Python Program?
a) \$ b) @ c) # d) &
- 4) A sequence of immutable objects is called
a) Built -in b) List c) Tuple d) Selectors
- 5) Which of the following is used to describe the worst case of an algorithm?
a) Big O b) Big A c) Big θ d) Big Ω
- 6) What is the output of the following code?
 a = "Computer Science"
 print(len(a))
a) 16 b) Computer Science c) 15 d) error
- 7) Which of the following python function can be used to add more than one element within an existing list?
a) append() b) append_more() c) extend() d) Insert()
- 8) The process of creating an object is called as:
a) Constructor b) Destructor c) Initialize d) Instantiation
- 9) Which one is optional part in range() function.
a) start b) stop c) step d) end
- 10) In which database model, the relationship are created by dividing the object into entity and its characteristics into attributes.
a) Hierarchical b) Relational c) Network d) ER
- 11) What symbol used for SELECT statement
a) Π b) σ c) Ω d) \$
- 12) Which constraint helps to set a limit value placed for a field?
a) Check b) Default c) Table d) Primary Key
- 13) The module which allows you to interface with the Windows operating system is
a) OS module b) getopt module c) sys module d) csv module
- 14) Which command is used to generate a Query
a) SELECT b) ORDER BY c) MODIFY d) ALTER
- 15) Which module of pythod helps to parse command-line options and arguments.
a) OS module b) getopt module c) sys module d) csv module

Part - II**Answer any 6 questions. Q.No.24 is compulsory:****6x2=12**

- 16) Differentiate interface and Implementation.
- 17) Write a short note on Continue Statement.
- 18) Write the syntax and use of csv.reader() function.
- 19) Which method is used to connect a database? Give an example.
- 20) What is the difference between a compiler and interpreter.
- 21) How will you access the list elements in reverse order?

Tsi12CS

2

- 22) What is the use of dot operator?
 23) What is SQL?
 24) What is the output of the following code?
 for i in range(3, 30, 3):
 print(i, end=' ')

Part - III**Answer any 6 questions. Q.No.33 is compulsory:****6x3=18**

- 25) Write down the rules of Local variable.
 26) Differentiate ceil() and Floor() function.
 27) What is the use of format() function. Give an example.
 28) Define Constructor and Destructor in Python.
 29) What is the difference between reader () and DictReader class.
 30) What is SQLite? What is its advantages?
 31) List out the types of visualizations in Matplotlib
 32) What is the difference between List and Dictionary.
 33) What is the output of the following python code?

```
>>>(x,y,z,p) = (2**2, 5/3+4, 15%2, 34 > 65)
>>> print (x, y, z, p)
```

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

- 34) a) Explain with example Pure and Impure Function.

(OR)

- b) Explain the characteristics of an Algorithm

- 35) a) Explain the scope of variable in Python with example.

(OR)

- b) What is an Array? Explain the 2-D array with example.

- 36) a) Write the features of Python over C++

(OR)

- b) Explain the characteristics of RDBMS

- 37) a) Explain the following Python Functions.

i) id() ii) type() iii) lower() iv) max() v) min()

(OR)

- b) Explain with example various string slicing methods using the slicing operator.

- 38) a) Mylist = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Write the python commands for the above List.

- i) display the all the elements of the list
 ii) display the length of the above list
 iii) Add the values [11, 12, 13] in the above list.
 iv) Remove the elements from 4 to 7 in the above list.
 v) Delete all the elements in the above list.

(OR)

- b) Explain the purpose of the following functions.

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