Tsi12CS

Tenkasi District Common Examinations
First Revision Test - January 2023

12.-01-2023.

Standard 12
COMPUTER SCIENCE

Time Allowed: 3.00 Hours

Maximum Marks: 70

Part - I

Answer all the questions.   **15×1=15**

Choose the correct answer and write the option code with answer:

1) Identify the package manager for python packages, or modulus
   a) Matplotlib   b) PIP   c) Plt.show()   d) Python package
2) Which of the following is called the master table?
   a) sqlite - master   b) sql-master   c) main-master   d) master-main
3) getopt() will return an empty array if there is no error in splitting strings to
   a) argv variable   b) opt variable   c) args variable   d) ifile variable
4) 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
5) The command to delete a table including the structure is
   a) DROP   b) DELETE   c) DELETE ALL   d) ALTER TABLE
6) Which of the following is an RDBMS?
   a) Dbase   b) Foxpro   c) Microsoft Access   d) SQ Lite
7) A private variabe is prefixed with
   a) _ _   b) &&   c) ##   d) **
8) Let list 1=[2, 4, 6, 8, 10], then print (List 1[−2]) will result in
   a) 10   b) 8   c) 4   d) 6
9) Which of the following is used as placeholders or replacement fields which get replaced along with format () function?
   a) { }   b) <>   c) ++   d) ^^
10) While defining a function which of the following symbol is used?
    a) ; (semicolon)   b) . (dot)   c) : (colon)   d) $ (dollar)
11) Which statement is generally used as a placeholder?
    a) continue   b) break   c) pass   d) goto
12) Which of the following is not a token?
    a) Interpreter   b) Identifiers   c) Keyword   d) Operators
13) From the following sorting algorithms which has the lowest worst case complexity?
    a) Bubble sort   b) Quick sort   c) Merge sort   d) Selection sort
14) Which scope refers to variables defined in current function?
    a) Local scope   b) Global scope   c) Module scope   d) Function scope
15) The datatype whose representation is unknown are called
    a) Built in data type   b) Derived data type
    c) Concrete data type   d) Abstract data type

Part - II

Answer any six questions. Q.No. 24 is compulsory: **6×2=12**

16) Define function with respect to programming language.
17) What are the characteristics of modules?
18) Write a note on range() in loop.
19) What is string?
20) Write the syntax to create list with suitable example in python.
21) Write categories of SQL commands.
22) What is the theoretical difference between scripting language and other programming language?
23) List the types of visualization in Matplotlib.
24) What is the use of next() function?

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Part - III

Answer any six questions. Q.No.33 is compulsory: 6×3=18

25) Define Abstraction. What is Abstract data type?
26) Write a note on Dynamic programming.
27) Explain Ternary operator with example.
28) What are advantages of Tuples over a list.
29) Write a note on types of DBMS users.
30) Write short notes on TCL commands in SQL.
31) What are the applications of scripting languages?
32) Differentiate python and C++.
33) What will be the output of the given python program?

```
a = "computer"
b = "science"
x = a[:4]+b[len(b).3:]
print (x)
```

Part - IV

Answer all the questions: 5×5=25

34) a) What is Binary search? Discuss with example.

(OR)

   b) Explain data types in python with suitable example.

35) a) Explain the following built in function:
       (i) id()   (ii) chr()   (iii) round()   (iv) type()   (v) pow()

(OR)

   b) Write the output of the following python programs.
       i)
```
j = 15
while (j>=10):
   print (j, end='\t')
   j = j-1
else:
   print("\n End of the loop")
```
       ii)
```
i = 1
while (i<=6):
   for j in range (1, i):
      print (j, end='\t')
      print (end='\n')
   i+=1
```

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36) a) 1) What is slicing?
        2) What is the output for the following commands?
```
str = "Thinking with python"
i)  print (str[::3])
ii)  print (str[::-4])
iii) print (str[9:13])
```

(OR)

   b) What is set in python? Explain the following set operations with suitable example.
       (i) Union   (ii) Intersection   (iii) Difference

37) a) Differentiate DBMS and RDBMS.

(OR)

   b) Explain the types of data model.

38) a) Write any five key difference between Histogram and Bar Graph.

(OR)

   b) Explain each word of the following command.
       python < filename.py > - <i> <c++ filename without cpp extension>