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MAYILADUTHURAI DISTRICT

12th Standard
Computer Science

Date : 14-Feb-23

Exam Time : 03:00:00 Hrs

Reg.No. : ☐☐☐☐☐☐

Total Marks : 70

PART-A
CHOOSE THE CORRECT ANSWER

15 x 1 = 15

1) The functions which will give exact result when same arguments are passed are called

 (a) Impure functions   (b) Partial Functions   (c) Dynamic Functions   (d) Pure functions

2) Which of the following is a compound structure?

 (a) Pair   (b) Triplet   (c) single   (d) quadrat

3) Which scope refers to variables defined in current function?

 (a) Local Scope   (b) Global scope   (c) Module scope   (d) Function Scope

4) The Θ notation in asymptotic evaluation represents

 (a) Base case   (b) Average case   (c) Worst case   (d) NULL case

5) The Python prompt indicates that Interpreter is ready to accept instruction.

 (a) > > >   (b) < < <   (c) #   (d) < <

6) What is the output of the following snippet?
```
i=1
while True:
if i%3 ==0:
break
print(i,end='')
i +=1
```

 (a) 12   (b) 123   (c) 1234   (d) 124

7) Which of the following keyword is used to exit a function block?

 (a) define   (b) return   (c) finally   (d) def

8) What is stride?

 (a) index value of slide operation   (b) first argument of slice operation

 (c) second argument of slice operation   (d) third argument of slice operation

9) Let list1=[2,4,6,8,10], then print(List1[-2]) will result in

 (a) 10   (b) 8   (c) 4   (d) 6

10) A private class variable is prefixed with

 (a) __   (b) &&   (c) ##   (d) **

11) Relational database model was first proposed by

 (a) E F Codd   (b) E E Codd   (c) E F Cadd   (d) E F Codder

12) Queries can be generated using

 (a) SELECT   (b) ORDER BY   (c) MODIFY   (d) ALTER

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) The most commonly used statement in SQL is

 (a) cursor   (b) select   (c) execute   (d) commit

15) To install matplotlib, the following function will be typed in your command prompt. What does "-U"represents?
Python –m pip install –U pip

 (a) downloading pip to the latest version   (b) upgrading pip to the latest version   (c) removing pip

 (d) upgrading matplotlib to the latest version

PART-B   6 x 2 = 12
ANSWER ANY SIX OF THE FOLLOWING
Q.NO :24 IS COMPULSORY

16) Define Function with respect to Programming language.

17) What is a Tuple? Give an example.

18) Define Pseudo code.

19) Write short notes on Exponent data?

20) Define control structure.

21) How will you delete a string in Python?

22) Differentiate del with remove( ) function of List.

23) Write a query that selects all students whose age is less than 18 in order wise.

24) Mention the default modes of the File.

PART-C   6x 3 = 18
ANSWER ANY SIX OF THE FOLLOWING
Q.NO: 33 IS COMPULSORY

25) What are the different ways to access the elements of a list. Give example.

26) Discuss about Algorithmic complexity and its types.

27) Write short notes on Arithmetic operator with examples.

28) Write the syntax of while loop.

29) Differentiate ceil() and floor() function?

30) Write a short about the followings with suitable example:
 (a) capitalize( )
 (b) swapcase( )

31) What is the difference between Select and Project command?

32) Write the use of Savepoint command with an example.

33) What is the difference between reader() and DictReader() function?

PART-D   5 x 5 = 25
ANSWER THE FOLLOWING QUESTIONS

34) a) Explain with an example interface and implementation.
(OR)

b) Explain the types of scopes for variable or LEGB rule with example.

35) a) What is Binary search? Discuss with example
(OR)

b) Discuss in detail about Tokens in Python.

36) a) Write a detail note on for loop.
(OR)

b) Explain about string operators in python with suitable example.

37) a) Explain the different set operations supported by python with suitable example.
(OR)

b) Explain the different operators in Relational algebra with suitable examples.

38) a) Explain each word of the following command.
 Python < filename.py > - < i > < C++ filename without cpp extension >
(OR)

b) Explain in detail the types of pyplots using Matplotlib.

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