Tvl12CS

Common Quarterly Examination - September 2022 ⬭⬭⬭⬭⬭⬭

TENKASI DISTRICT **Standard 12**

COMPUTER SCIENCE

Time Allowed: 3.00 Hours   Maximum Marks: 70

PART - I

i) **All questions are compulsory.**   **15×1=15**

ii) **Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.**

1) The variables in a function definition are called as
   a) Subroutines   b) Files   c) Arguments   d) Parameters

2) The datatype 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 is used in programming languages to map the variable and object?
   a) =   b) :=   c) ::   d) ==

4) The ⌢ notation in asymptotic evaluation represents
   a) Base case   b) Average case   c) Worst case   d) Null case

5) _____ command is used to Python script.
   a) Run → Run module   b) Run – Run
   c) Run → Compile   d) Run – F5

6) Python comment statement starts with _____ symbol.
   a) >>>   b) $ c) #   d) "

7) Select the correct option according to given two statements.
   I. In python branching is done using different types of looping construct.
   II. Pass statement is generally used as a place holder.
   a) I - True and II - False   b) I - False & II - True
   c) I-II Both are True   d) I-II Both are False

8) The condition in the if statement should be in the form of
   a) arithmetic or relational expression   b) arithmetic or logical expression
   c) relational or logical expression   d) arithmetic expression

9) Which of the following keyword is used to begin the function block?
   a) def   b) class   c) for   d) if

10) Which of the function returns the square root of the given number?
    a) pow ( )   b) floor ( )   c) sqroot ( )   d) sqrt ( )

11) What is the output of the following code?
    ```
    str1 = "Nellai CST Express"
    str1 [10] ="-"
    print(str1)
    ```
    a) Nellai CST - Express   b) Nellai CS - Express
    c) Nellai Express   d) Type error

12) What is the string formating operator in python?
    a) "   b) [ ]   c) %   d) Format ( )

13) Pick odd one in connection with collection data type.
    a) List   b) Tuple   c) Dictionary   d) Loop

14) Which of the following python function can be used to add more than one element with in an existing list?
    a) append ( )   b) appendmore ( )   c) extend ( )   d) more ( )

15) The process of creating an object is called as
    a) Constructor   b) Destructor   c) Initialise   d) Instantiation

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PART - II

Note: **Answer ANY SIX questions. Q.No. 24 is compulsory.**   6×2=12

16) What is a subroutine?
17) Notes on Namespace.
18) Write about Tockens.
19) Do you modify the string in python.
20) Write the different types of functions in python.
21) Differentiate del statement with remove ( ) function of List.
22) Differentiate List and Tuples.
23) Write about public and private data members of a class.
24) What is the output of the following python code?

```
for ch in "Jump statement":
    if ch =='e':
        continue
    print (ch, end=' ')
print ("\n End of the Program")
```

SIVAKUMAR M.
Sri Ram Matric HSS
Vallam 622809,

PART - III   *Tenkasi District.*

Note: **Answer ANY SIX questions. Q.No. 33 is compulsory.**   6×3=18

25) Differentiate concrete data type and abstract data type.
26) Lists the characteristics of an algorithm.
27) Explain Ternary operator with examples.
28) What is escape squences? Give example.
29) Write the syntax of the if .... else statement with an example.
30) What is composition in functions?
31) Note on the following functions:
   (a) Capitalize ( )   (b) Swap case ( )
32) Define Constructor and Destructor.
33) Write a python program to generate first ten even numbers in a list.

PART - IV

Note: **Answer ALL the questions.**   5×5=25

34) a) Explain with an example Interface and Implementation.
     (OR)
   b) What is binary search? Discuss with examples.
35) a) Describe in detail the procedure of script mode programming in python.
     (OR)
   b) Write a detail notes on for loop with an example.
36) a) Write the type of function arguments of python with examples.
     (OR)
   b) Write a python code to find the L.C.M. of two numbers.
37) a) Explain with suitable examples to seperate the strings using slicing operator.
     (OR)
   b) What is the different ways to insert an element in a list? Explain with
      suitable examples.
38) a) Explain the different set operations supported by python with examples.
     (OR)
   b) Explain the steps to create a class and access their members with examples.

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