Vnr12CS

Virudhunagar District
Common Quarterly Examination - 2024

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Standard 12
COMPUTER SCIENCE

Time: 3.00 Hrs.   Marks: 70

PART-I

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

1) Which of the following defines what an object do?
   a) Operating System   b) Compiler
   c) Interface   d) Interpreter

2) The data type whose representation is unknown are called
   a) Built in data type   b) Derived data type
   c) Concrete data type   d) Abstract data type

3) The members that are accessible from within the class and are also available to its sub-classes is called
   a) Public members   b) Protected members
   c) Secured members   d) Private members

4) The algorithm that yields expected output for a valid Input is called as
   a) Algorithmic solution   b) Algorithmic outcomes
   c) Algorithmic problem   d) Algorithmic coding

5) Which of the following character is used to give comments in Python program?
   a) #   b) &   c) @   d) $

6) Which amongst this is not a jump statement?
   a) for   b) pass   c) continue   d) break

7) A function which calls itself is called as
   a) Built-in   b) Recursive c) Lambda   d) return

8) In which argument the correct positional order is passed to a function?
   a) Required   b) Keyword   c) Default   d) Variable length

9) Strings in Python
   a) Changeable b) Mutable   c) Immutable d) flexible

10) 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

11) Let list 1 = [2,4,6,8,10], then print (List[−2]) will result in
    a) 10   b) 8   c) 4   d) 6

12) Which of the following Python function can be used to add more than one element within a existing list?
    a) append()   b) append_more()
    c) extend()   d) more()

13) Which of the following method is used as destructor?
    a) _ _ init _ _()   b) _ _ dest _ _()
    c) _ _ rem _ _()   d) _ _ del _ _()

14) The process of creating an object is called as:
    a) Constructor b) Destructor c) Initialize d) Instantiation

15) The _____ part of the while loop is optional.
    a) if   b) else   c) elif   d) elseif

PART-II

II. Answer any 6 questions. Question no.24 is compulsory.   6×2=12

16) What is a Subroutine?
17) Differentiate Constructors and Selectors.

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18) How Python represents the private and protected Access specifiers?
19) Write the phases of performance evaluation of an algorithm.
20) What are the different operators that can be used in Python?
21) Write note on 'break' statement.
22) What are the main advantages of function?
23) How will you delete a string in Python?
24) Write the syntax of creating a Tuple with 'n' number of elements.

PART-III

III. Answer any 5 questions. Question no.33 is compulsory.   6x3=18

25) Differentiate pure and impure function.
26) Define Global scope with an example.
27) List the characteristics of an Algorithm.
28) Explain Ternary operator with an example.
29) Write a program to display.
```
A
A  B
A  B  C
A  B  C  D
A  B  C  D  E
```
30) Write the rules of local variable.
31) Write a note about count() function in Python.
32) How to define constructor and destructor in Python?
33) What will be the output of the following code?
```
List = [2 ** x for x in range(5)]
print(list)
```

PART-IV

IV. Answer all the questions.   5×5=25

34) What are called Parameters and write a note on
   a) Parameter without type   b) Parameter with type
                          (OR)
   How will you facilitate data abstraction. Explain it with suitable example.
35) Explain the types of scopes of variables or LEGB rule with example.
                          (OR)
   What is Binary search? Discuss with example.
36) Explain input() and print() functions with examples.
                          (OR)
   Write a detail note on if.....elif.....else statement with suitable example.
37) Explain the following built-in functions.
   a) Id ()   b) chr()   c) round()
   d) type()   e) pow()
                          (OR)
   Explain about string operators in python with suitable example.
38) Explain the different set operations supported by Python with suitable example.
                          (OR)
   Write a program using class to accept three sides of a triangle and print its area.