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COMMON FIRST REVISION EXAMINATION - 2024

Std - XII

Time : 3.00 Hours

COMPUTER SCIENCE

Marks: 70

Part - I

1. Choose the best answer: 15 x 1 = 15
- The variables in a function definition are called as
a) Subroutines b) Function c) Definition d) Parameters
 - Which one of the following is invalid?
a) Function definition which calls itself is called recursive function
b) Pure Function do not have any side effects
c) Definitions are distinct syntactic blocks
d) All functions are dynamic definitions
 - Which of the following is constructed by placing expressions within parentheses?
a) Tuples b) Lists c) Classes d) quadrats
 - Which of the following refers to the visibility of variables in one part of a program to another part of the same program?
a) Scope b) Memory c) Address d) Accessibility
 - All members in a Python class are by default
a) private b) protected c) public d) pure
 - From the following sorting algorithms which algorithm needs the minimum number of swaps?
a) Bubble sort b) Insertion sort c) Selection sort d) All the above
 - Which of the following character is used to give comments in Python Program?
a) # b) & c) @ d) \$
 - What is the value of $x^{**}=2$ when $x = 2.5$?
a) 5.0 b) 50.0 c) 6.25 d) 62.5
 - 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
 - Read the following statement and choose the correct statement(s).
(I) In Python, you have to mention the specific data types while defining function.
(II) Python keywords cannot be used as function name.
a) I is correct and II is wrong b) Both are correct c) I is wrong and II is correct
d) Both are wrong
 - Python stops calling recursive function after calls by default
a) 1000 b) 1500 c) 2000 d) 3000
 - `>>>str1='mammals'`
`>>>str1.find('ma')` The output is
a) 0 b) 1 c) -1 d) 2
 - Pick odd one in connection with collection data type
a) List b) Tuple c) Dictionary d) Loop
 - The keys in a Python dictionary is separated by a
a) dot b) colon c) comma d) semi colon
 - Which of the following is the private class variable?
a) `__num` b) `##num` c) `$$num` d) `&&num`

Part - II

6 x 2 = 12

II. Answer any six Questions. Q.No. 24 is compulsory:

16. Differentiate interface and implementation.
17. What is a List? Give an example.
18. Why scope should be used for variable. State the reason.
19. What is sorting?
20. Write short notes on Tokens.
21. Write the syntax of if..else statement
22. Write the different types of function.
23. How will you delete a string in Python?
24. Write the output

```
class Odd_Even:
    def check(self, num):
        if num%2==0:
            print(num," is Even number"]
        else:
            print(num," is odd number")
n=Odd_Even()
x=int(input("Enter a value: "))
n.check(x)
```

Part - III

6 x 3 = 18

III. Answer any six questions. Q.No. 33 is Compulsory:

25. Which strategy is used for program designing? Define that Strategy.
26. Define Global scope with an example
27. List the characteristics of an algorithm.
28. What are string literals? Explain.
29. List the differences between break and continue statements.
30. Differentiate ceil() and floor() function?
31. Write a note about count() function in python.
32. What are the difference between List and Tuples?
33. Write a program to display all 4 digit even numbers.

Part - IV

5 x 5 = 25

IV. Answer all the questions in detail:

34. Explain with example Pure and impure functions. (OR)
How will you facilitate data abstraction? Explain it with suitable example.
35. Write any Five Characteristics of Modules.
(OR)
Explain the concept of Dynamic programming with suitable example.
36. Explain input() and print() functions with examples.
(OR)
Write a program to display multiplication table for a given number.
37. Explain recursive function with an example.
(OR)
Explain about string operators in python with suitable example.
38. What is nested tuple? Explain with an example.
(OR)
Explain about constructor and destructor with suitable example.
