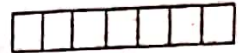


FTS

QUARTERLY EXAMINATION - 2023

CLASS : 12

COMPUTER SCIENCE



TIME : 3.00 hrs

SALEM

MARKS : 70

PART - I

Note: (i) Answer all the questions (ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer. 15x1=15

- The variables in a function definition are called as
(A) Subroutines (B) Function (C) Definition (D) Parameters
 - A sequence of immutable objects is called
(A) Built in (B) List (C) Tuple (D) Derived data
 - Which scope refers to variables defined in current function?
(A) Local Scope (B) Global scope (C) Module scope (D) Function Scope
 - Which of the following is used to describe the worst case of an algorithm?
A) Big A (B) Big S (C) Big W (D) Big O
 - This symbol is used to print more than one item on a single line.
A) Semicolon (;) (B) Dollor (\$) (C) comma (,) (D) Colon (:)
 - What plays a vital role in Python programming?
A) Statements (B) Control (C) Structure (D) Indentation
 - Which amongst this is not a jump statement ?
A) for (B) pass (C) continue (D) break
 - A Function which calls itself is called as
(a) Built-in (b) Recursion (c) Lambda (d) return
- Pick the correct one to execute the given statement successfully.**
- if ____ : print(x, " is a leap year")
(a) $x\%2=0$ (b) $x\%4==0$ (c) $x/4=0$ (d) $x\%4=0$
 - Defining strings within triple quotes allows creating:
(a) Single line Strings (b) Multiline Strings
(c) Double line Strings (d) Multiple Strings
 - The subscript of a string may be:
(a) Positive (b) Negative (c) Both (a) and (b) (d) Either (a) or (b)
 - Pick odd one in connection with collection data type
(a) List (b) Tuple (c) Dictionary (d) Loop
 - The keys in Python, dictionary is specified by
(a) = (b) ; (c) + (d) :
 - Which of the following are the key features of an Object Oriented Programming language?
(a) Constructor and Classes (b) Constructor and Object
(c) Classes and Objects (d) Constructor and Destructor
 - A private class variable is prefixed with
(a) _ (b) && (c) ## (d) **

PART - II**ANSWER ANY SIX. Q NO: 21 IS COMPULSORY.****6 X 2 = 12**

16. What is a subroutine?
17. What is a Pair? Give an example.
18. What is an Algorithm?
19. Write short notes on Tokens.
20. Write is the syntax of if..else statement
21. Define global scope.
22. What will be the output of the following python code?
str1 = "School" print(str1*3)
23. What will be the value of x in following python code?
List1=[2,4,6[1,3,5]] x=len(List1)
24. How will you create constructor in Python?

PART - III**ANSWER ANY SIX. Q NO : 32 IS COMPULSORY.****6 X 3 = 18**

25. Differentiate pure and impure function.
26. Identify the scope of the variables in the following pseudo code and write its output
color:= 'Red' mycolor(): b:='Blue' myfavcolor(): g:='Green'
print color, b, g myfavcolor()
print color, b mycolor()
print color
27. Write a note on Asymptotic notation.
28. Explain Ternary operator with examples.
29. Differentiate ceil () and floor () function?.
30. Write a short about the followings with suitable example:
(a) capitalize () (b) swapcase ().
31. What will be the output of the following code?
list = [2**x for x in range(5)] print(list)
32. What are class members? How do you define it?
33. How to define constructor and destructor in Python?

PART - IV**ANSWER THE FOLLOWING .****5 X 5 = 25**

34. What are called Parameters and write a note on (i) Parameter without Type
(ii) Parameter with Type. **(OR)**
What is a List? Why List can be called as Pairs. Explain with suitable example
35. Write any Five Characteristics of Modules. **(OR)**
What is Binary search? Discuss with example.
36. Discuss in detail about Tokens in Python. **(OR)**
Write a detail note on for loop.
37. Explain recursive function with an example. **(OR)**
Explain about string operators in python with suitable example.
38. Explain the different set operations supported by python with suitable example.
(OR) Explain about constructor and destructor with suitable example.

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