ax. Marks: 70

d) Function Scope

Class: 12

FIRST REVISION EXAM.

	CONTRACTON-JANUARI-2	
Time Allowed : 3.00 Hours]	COMPUTER SCIENCE	IM
Note : i) All the questions.	PADT	

15X1=15 ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

1. Which of the following are mandatory to write the type annotations in the function definition? b) () c)

2. The functions which cause side effects to the arguments passed are called Partial Functions

a) impure function b) Pure functions c) Dynamic Functions 3. The data type whose representation is known are called

Derived datatype a) Built in datatype Abstract datatype c) Concrete datatype

4. Which scope refers to variables defined in current function? b) Global scope Module scope a) Local Scope

5. Binary search is also called as a) Linear search b) Sequential search c) d) Half-interval search Random search

6. In dynamic programming, the technique of storing the previously calculated values is called? Storing value property b)

a) Saving value property Mapping d) c) Memoization

Expand IDLE: a) Integrated Design Learning Environment b) Insert Development Learning Environment

c) Integrated Develop Learning Environment d) Integrated Development Learning Environment 8. Which of the following shortcut is used to create new Python Program?

d) Ctrl + N c) Ctrl + B b) Ctrl + F

9. Which statement is generally used as a placeholder?

c) pass goto b) break a) continue

10. What is the output of the following snippet? i=1

while True: if i%3 ==0: break print(i,end=' ')

i +=11234 124 b) 123 C)

11. Which of the following keyword is used to exit a function block?

def b) return finally a) define C)

12. What is stride? a) index value of slide operation

first argument of slice operation b) c) second argument of slice operation d) third argument of slice operation 13. The subscript of a string may be:

None of these Positive or Negative d) a) Positive only b) Negative only C) 14.Let setA={3,6,9}, setB={1,3,9}. What will be the result of the following snippet?

print(setA|setB)

{1,3,6,9} a) {3,6,9,1,3,9} b) {3,9} {1} C) 15.A private class variable is prefixed with

b) 88 d) C)

PART - II

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II. Answer any SIX of the following:
                                                                                            6×2=12
  16. Differentiate interface and implementation.
 17. What is a Pair? Give an example.
 18. How Python represents the private and protected Access specifiers?
  19. Write the phases of performance evaluation of an algorithm
  20. Write short notes on Tokens.
  21. Write the output for the following.
                 -for word in "Jump Statement":
                       if word = = "t":
                             break
                       print (word, end= ' ')
  22. How to set the limit for recursive function? Give an example.
  23. How will you delete a string in Python?
  24. What will be the value of x in following python code?
         List1=[2,4,6[1,3,5]]
         x=len(List1)
                                               PART - III
                                                                                              6×3=18
 III. Answer any SIX of the following:
 25. Mention the characteristics of Interface
 26. Why access control is required?
 What are the factors that influence time and space complexity.
 28. Write short notes on Escape sequences with examples.
 29. List the differences between break and continue statements.
 30. What happens when we modify global variable inside the function?
 31. What is the use of format()? Give an example.
 32. What is the output of the following program?
        class Greeting:
                 def __init_ (self, name):
                      self.__name = name
                 def display(self):
                      print("Good Morning", self.__name)
        obj=Greeting('Bindu Madhavan')
        obj.display()
33. What will be the output of the following code?
        list = [x^{**}2 \text{ for } x \text{ in ange}(5)]
        print(list)
                                               PART - IV
                                                                                                 5×5=25
IV. Answer all questions:
34. (a) What is a List? Why List can be called as Pairs. Explain with suitable example.
                                                                                                (OR)
    (b) Explain with example Pure and impure functions.
35. (a) Explain the LEGB rule with suitable example.
                                                             (OR)
    (b) Explain the concept of Dynamic programming with suitable example.
36. (a)Describe in detail the procedure Script mode programming.
                                                                                  (OR)
    (b) Write a program to display all 3 digit odd numbers.
37. (a) Explain the different types of function with an example. (OR)
    (b) Explain about constructor and destructor with suitable example.
38. (a) Find the output for the following python snippet.
    MyList=[21,76,98,21]
    (i) print(max(MyList))
                                 (ii) print(sum(MyList))
                                                              (iii) print(MyList.count(12))
    (iv)MyList.reverse()
                                  (v) print( MyList,index(98))
                                                                  (OR)
   (b) Find the output for the following python snippet.
       str1="THIRUKKURAL"
       print(len(str1))
                                 (ii) print(str1.center(15,'*'))
                                                                  (iii) print(str1.lower())
  (iv) print (str1.islower())
                                 (v) print (str1.isupper())
                                                                                         CH/J/12/C.S/
```