



**I. Choose The Correct Answer:**

[15 x 1 = 15]

1. The values which are passed to a function definition are called  
(A) Arguments                      (B) Subroutines                      (C) Function                      (D) Definition
2. Which of the following functions that retrieve information from the data type?  
(A) Constructors                      (B) Selectors                      (C) recursive                      (D) Nested
3. Which scope refers to variables defined in current function?  
(A) Local Scope                      (B) Global scope                      (C) Module scope                      (D) Function Scope
4. Time complexity of bubble sort in best case is  
(A)  $\theta(n)$                       (B)  $\theta(n \log n)$                       (C)  $\theta(n^2)$                       (D)  $\theta(n(\log n)^2)$
5. Which of the following is not a token ?  
(A) Interpreter                      (B) Identifiers                      (C) Keyword                      (D) Operators
6. Which operator is also called as Conditional operator?  
(A) Ternary                      (B) Relational                      (C) Logical                      (D) Assignment
7. elif can be considered to be abbreviation of  
(A) nested if                      (B) if..else                      (C) else if                      (D) if..elif
8. Which is the most comfortable loop?  
(A) do..while                      (B) while                      (C) for                      (D) if..elif
9. Which function is called anonymous un-named function  
(A) Lambda                      (B) Recursion                      (C) Function                      (D) define
10. 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)  $x\%4 = 0$
11. Strings in python:  
(A) Changeable                      (B) Mutable                      (C) Immutable                      (D) flexible
12. Which of the following is the slicing operator?  
(A) { }                      (B) [ ]                      (C) < >                      (D) ( )
13. If List=[10,20,30,40,50] then List[2]=35 will result  
(A) [35,10,20,30,40,50]                      (B) [10,20,30,40,50,35]                      (C) [10,20,35,40,50]                      (D) [10,35,30,40,50]
14. Let setA={3,6,9}, setB={1,3,9}. What will be the result of the following snippet?  
print(setA|setB)  
(A){3,6,9,1,3,9}                      (B) {3,9}                      (C) {1}                      (D) {1,3,6,9}
15. Which of the following method is automatically executed when an object is created?  
(A) \_\_object\_\_()                      (B) \_\_del\_\_()                      (C) \_\_func\_\_()                      (D) \_\_init\_\_()

**II. Answer any 6 of the following questions:**

[6 x 2 = 12]

**Question number 21 is compulsory**

16. Define Function with respect to Programming language
17. Differentiate constructors and selectors.
18. Why scope should be used for variable. State the reason.

19. What is searching? Write its types.
20. What is a literal? Explain the types of literals
21. Write is the syntax of if..else statement
22. What are the main advantages of function?
23. What is slicing?
24. How will you access the list elements in reverse order?

**III. Answer any 6 of the following questions:  
Question number 32 is compulsory**

**[6 x 3 = 18]**

25. What happens if you modify a variable outside the function? Give an example.
26. Identify Which of the following are constructors and selectors?

- (a) N1=number()      (b) accetnum(n1)      (c) displaynum(n1)  
(d) eval(a/b)      (e) x,y= makeslope (m), makeslope(n)      (f) display()

27. Define Enclosed scope with an example.
28. List the characteristics of an algorithm.
29. Explain Ternary operator with examples
30. Using if..else..elif statement write a suitable program to display largest of 3 numbers.
31. What are the advantages of Tuples over a list?
32. What are class members? How do you define it?
33. How do define constructor and destructor in Python?

**IV. Answer the following questions:**

**[5 x 5 = 25]**

34. a) What are called Parameters and write a note on

- (i) Parameter without Type      (ii) Parameter with Type.

[OR]

- b) Write a detail note on if..else..elif statement with suitable example.

35. a) Explain the types of scopes for variable or LEGB rule with example.

[OR]

- b) What is Binary search? Discuss with example.

36. a) Discuss in detail about Tokens in Python.

[OR]

- b) Write a Python code to find the L.C.M. of two numbers.

37. a) What the different ways to insert an element in a list. Explain with suitable example.

[OR]

- b) Explain the bubble sort algorithm with example

38. a) Write a program to display all 3 digit off numbers.

[OR]

- b) What is nested tuple? Explain with example.