

7. Which of the following is a finite set of instructions to accomplish a particular task ?
(a) Flow chart (b) Flow
(c) Algorithm (d) Syntax
8. From the following Sorting algorithm which algorithm needs the minimum number of Swaps ?
(a) Bubble Sort (b) Quick Sort
(c) Merge Sort (d) Selection Sort
9. 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
10. Which of the following is a distinct Syntactic Block ?
(a) Subroutines (b) Function
(c) Definition (d) Modules
11. Who developed python ?
(a) Ritche (b) Guido Van Rossum
(c) Bill Gates (d) Sunder Pitchai
12. This symbol is used to print more than one item on a single line ?
(a) Semicolon (;) (b) Dollar (\$)
(c) Comma (,) (d) Colon (:)
13. Which operator is also called as Comparative Operator ?
(a) Arithmetic (b) Relational
(c) Logical (d) Assignment
14. Which of the following is not Logical Operator ?
(a) and (b) or (c) not (d) assignment
15. Which operator is also called as Conditional Operator ?
(a) Ternary (b) Relational
(c) Logical (d) Assignment

PART - II

Note : Answer any six questions. Question No. 24 is compulsory.

6x2=12

16. Define function with respect to programming language.
17. What is abstract data type ?
18. Give a note on Namespaces.
19. Write the types of Scopes of Variable.
20. What is Sorting ?
21. What is Algorithmic Solution ?
22. What are the different modes that can be used to test python program ?
23. Write a command to execute the Python Script.
24. What is Keyword ? Give examples.

PART - III

Note : Answer any six questions. Question No. 33 is compulsory.

6x3=18

25. Write a note on parameter without type.
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. Explain the Enclosed Scope with an example.
28. Write the difference between Algorithm and Program.
29. Write a Pseudocode for Linear Search.
30. Write short notes on Escape Sequences with example.
31. Write short notes on input() function with example.
32. Explain Ternary Operator with examples.
33. Write an output for the following Python program.

```
X=int(input ("Enter Number 1 : "))
Y=int(input ("Enter Number 2 : "))
print("The sum=", X+Y)
```

[Turn over

PART - IV

5x5=25

Note : Answer all the questions.

34. (a) How will you facilitate data abstraction ? Explain it with suitable example.

OR

- (b) (i) Why scope should be used for variable ?
(ii) Explain Global Scope with an example.

35. (a) Explain the characteristics of an algorithm.

OR

(b) What is Binary Search ? Discuss with example.

36. (a) Discuss in detail about Token in Python.

OR

- (b) Write a note on :
(i) Comments in Python
(ii) Indentation

37. (a) Explain the Insertion Sort algorithm with example.

OR

(b) Explain Local Scope, Built in Scope with example.

38. (a) Explain about different types of operators in Python.

OR

(b) Write an output for the following Python Program.

```
a = 100
b = 10
print ("The sum =", a + b)
print ("The Difference =", a - b)
print ("The Product =", a * b)
print ("The Quotient =", a / b)
print ("The Remainder =", a % 30)
print ("The Exponent =", a ** 2)
print ("The Floor Division =", a // 30)
```