

PART - I

I. Choose the best answer:

10×1=10

- The small sections of code that are used to perform a particular task is called
a) Subroutines b) Files c) Pseudocode d) Modules
- Which of the following defines what an object can do?
a) Operating system b) Compiler
c) Interface d) Interpreter
- The data Structure which is a mutable ordered Sequence of elements is called
a) Built in b) List c) Tuple d) Derived data
- Which of the following allow to name the various parts of a Multi-item object?
a) Tuples b) Lists c) Classes d) Quadrats
- From the following Sorting algorithms which algorithm needs the minimum number of Swaps?
a) Bubble Sort b) Quick Sort c) Merge Sort d) Selection Sort
- Who developed Python?
a) Ritche b) Guido van Rossum c) Bill Gates d) Sundar Pitchal
- Which of the following character is used to give Comments in Python Program?
a) # b) & c) @ d) \$
- How many important Control Structure are there in Python?
a) 3 b) 4 c) 5 d) 6
- Which is the most Comfortable loop?
a) do.... while b) while c) for d) if....elif
- Which function is called anonymous un-named function.
a) Lambda b) Recursion c) Function d) define

PART - II

II. Answer any five from the following questions. Question No.15 is compulsory.

5×2=10

- What is a Subroutine?
- What is a Pair? Give an example.
- What is Mapping?
- What is Searching ? Write its types.
- What are the different operators that can be used in python?
- Define Control Structure.
- What are the main advantages of function?

PART - III

III. Answer any five from the following questions. Question No 20 is compulsory.

5×3=15

18. Mention the characteristics of Interface.
19. Why access Control is required?
20. Differentiate Concrete data type and abstract data type.
21. List the Characteristics of an algorithm.
22. What are string literals? Explain.
23. Write note on if.. else structure.
24. Differentiate Ceil () and floor () function.

PART - IV

Answer the following questions:

3×5=15

25. Explain with example Pure and impure functions.

(OR)

What is a List? Why List Can be called as pairs Explain with suitable example.

26. Write any five benefits in using Molecular programming.

(OR)

Discuss about Linear Search algorithm.

27. Explain input () and print () functions with examples.

(OR)

Write a detail note on for loop.