

(FOR THE CANDIDATES ADMITTED

23UIT619

DURING THE ACADEMIC YEAR 2023-2024 ONLY)

REG.NO.:

N.G.M. COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY 2026

BSC IT

MAXIMUM MARKS: 75

SEMESTER: VI

TIME: 3 HOURS

PART-III

PYTHON PROGRAMMING

SECTION - A

**(10 x 1 = 10 MARKS)
(K1)**

ANSWER THE FOLLOWING QUESTIONS.

1. Which of the following is a mutable data type in Python?
a) Tuple b) String c) List d) Integer
2. Which type of argument is matched by position?
a) Keyword argument b) Positional argument
c) Default argument d) Variable-length argument
3. Which method adds an element to the end of a list?
a) insert() b) add() c) extend() d) append ()
4. Which data structure stores data in key-value pairs?
a) List b) Tuple c) Dictionary d) Set
5. Which library is mainly used for data analysis in Python?
a) NumPy b) Pandas c) Matplotlib d) Seaborn

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES (K2)

6. Which python function is used to read input from the user?
7. Which keyword is used to define a function in Python?
8. What will len("Python") return?
9. Which symbol is used to represent a group in regular expressions?
10. Which mode is used to write data into a file?

SECTION – B

(5 x 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) What is modular programming in Python?

(OR)

- b) Write short notes on Input to python.

12. a) What are special functions in python?
(OR)
b) Describe about passing variables in function.
13. a) Write short notes on nested list.
(OR)
b) Differentiate between function, method and Attributes.
14. a) What are tuples? List their features.
(OR)
b) Write short notes on Anchors.
15. a) How will you use Pandas for file operations.
(OR)
b) What are advanced file handling concepts in Python?

SECTION - C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 or K5)

16. a) Discuss mutable data types in python with examples.
(OR)
b) Illustrate immutable data types in python with examples.
17. a) Explain different types of operators in Python.
(OR)
b) What are functions? Explain their need.
18. a) Discuss about creating, traversing and slicing Lists in Python.
(OR)
b) Explain the string operations in Python.
19. a) Explain dictionaries and view objects.
(OR)
b) Discuss about regular expression special characters and methods.
20. a) Explain file reading and writing in Python.
(OR)
b) Discuss Pandas and its features.
