

**(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2022 ONLY)**

22UIT515

REG.NO. :

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : NOVEMBER 2024**

**B.Sc. (IT)
SEMESTER : V**

**MAXIMUM MARKS: 50
TIME : 3 HOURS**

**PART - III
PYTHON PROGRAMMING**

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.(K1)

- List, dictionary and sets are _____.
(a) mutable (b) immutable (c) sequential (d) parallel
- Which function is used to return the absolute value of number?
(a) floor() (b) fabs() (c) exp() (d) ceil()
- Which of the following is used to create python _____.
(a) [] (b) { } (c) () (d) <>
- To create a dictionary in Python, _____ pair is used.
(a) key + value (b) key-value (c) key : value (d)key=value
- What is the primary data structure in Pandas?
(a) Services (b) Dataframe (c) Panel (d) Index

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

- Define: List.
- What are Modules in Python?
- Which function used to empty the list?
- How many types of indexing are available in string?
- List out the types of Python files.

(CONTD ... 2)

SECTION – B**(5 X 3 = 15 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Write a Python program to enter two numbers and print their difference.

(OR)

b) Explain the mutable and immutable Python objects.

12. a) Summarize the types of Python function.

(OR)

b) Examine passing variables to a function.

13. a) Describe the traversing a string.

(OR)

b) Survey on list functions.

14. a) Explain about deleting elements from a dictionary.

(OR)

b) Illustrate the Python's re-module methods.

15. a) Determine the Python File accessing modes.

(OR)

b) What is Pandas library in Python? Explain.

SECTION – C**(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(K4 (Or) K5)**

16. a) Discuss on Python data types.

(OR)

b) Describe about Python control structures.

17. a) Illustrate the Python operators.

(OR)

b) Explain the concept of defining and calling a function.

18. a) Investigate about Python string operators.

(OR)

b) Determine Creating, Traversing and slicing Lists with example.

19. a) Discuss Tuple and its operations.

(OR)

b) Explain the special characters used in Python.

20. a) Construct reading and writing files in Python.

(OR)

b) Explain the concept of using Pandas for files.

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