

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2021-2024 ONLY)

(NO. OF PAGES: 2)
SUB CODE **21UIT621**
REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY 2024
B.Sc.(IT) **MAXIMUM MARKS: 70**
SEMESTER : VI **TIME : 3 HOURS**

PART - III
PYTHON PROGRAMMING
SECTION - A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS(K1)

1. A Python script stored in a file with extension _____.
(a) .python (b) .py (c) .shell (d) .doc
2. What will be the output after the following statements?

```
import random as rd  
print (rd.randint(4,7))
```


(a) A random float variable between 4 and 7, including 4 and 7
(b) A random float variable between 4 and 7, excluding 4 and 7
(c) A random integer variable between 4 and 7, excluding 4 and 7
(d) A random integer variable between 4 and 7, including 4 and 7
3. The _____ method adds an item to the end of the list.
(a) append() (b) extend() (c) insert() (d) add()
4. A _____ is an unordered collection of key-value pairs.
(a) dictionary (b) list (c) tuple (d) module
5. An image is a type of _____.
(a) text file (b) executable file (c) binary file (d) csv files

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

6. Define: List
7. What are Boolean functions?
8. List the string operations.
9. Explain the functionality of span () method.
10. Define: Pickling.

(CONTD 2)

SECTION – B**(5 X 4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K3)**

11. a) Describe the Python keywords and identifiers.

(OR)

b) Compare Mutable Vs. Immutable.

12. a) Examine the comparison operators used in Python.

(OR)

b) Explain the functions available in math and Random modules.

13. a) Discuss the various ways of using if statement in Python.

(OR)

b) What is string slicing in python? Explain with an example.

14. a) Describe the Dictionary methods.

(OR)

b) Enumerate the special characters in Python.

15. a) Examine the file access modes.

(OR)

b) How to use pandas to read an Html file? Explain with an example.

SECTION - C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS****(FROM Qn. No : 17 to 21)****(K4 (Or) K5)**

16. Summarize the data types in Python.

17. Investigate the Python strings in detail.

18. Discuss about the function arguments.

19. Explain about creating, traversing and slicing lists.

20. How to create, initialize and access elements of tuples? Explain.

21. Discuss about reading and writing a file in Python.

21UIT621/-

