

(FOR THE CANDIDATES ADMITTED

22UDA308

DURING THE ACADEMIC YEAR 2022 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : NOVEMBER 2023

COURSE NAME:B.SC CS with DA(SF)

MAXIMUM MARKS: 50

SEMESTER:III

TIME : 3 HOURS

**PART - III**

**22UDA308– PROBLEM SOLVING USING PYTHON**

**SECTION – A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**(Objective Questions with four Multiple Choices)**

**(K1)**

- 1.----- of the following is used to define a block of code in python Language  
a) Indentation      b) Key      c) Brackets      d) Tags
2. Python supports the creation of anonymous functions at runtime, using a construct called \_\_\_\_\_  
a) pi      b) anonymous      c) lambda      d) Sigma
- 3.Index value in string should be of type -----  
a) Float      b) Integer      c) String      d) Boolean
4. Keys of dictionary must be -----  
a) antique      b) unique      c) mutable      d) Integers
5. ----- are the two main types of functions in Python  
a) System function      b) Custom function      c) Built-in function & User defined function  
d) User function

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

**(K2)**

6. Who developed python Programming?
7. Which type of Programming does Python support?
8. Name the function which is used to find the length of string in python?
9. In python which is used to delete an element from dictionary?
10. Which are the two built-in functions to read a line of text from standard input, which by default comes from the keyboard?

**(CONT...2)**

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

11. a) Describe the history of python  
(OR)  
b) List any three keywords and their usage in python Programming
12. a) Explain Lambda function in python  
(OR)  
b) Give the importance of strings in python
13. a) What is negative list indices in python  
(OR)  
b) How to create tuples? Give example.
14. a) Discuss value pairs in dictionaries  
(OR)  
b) Explain need of file handling in python
15. a) Describe classes and object  
(OR)  
b) Brief the concept of method overriding

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

- 16 a) Summarize data types in python  
(OR)  
b) Discuss control flow statements with suitable example.
17. a) Explain string slicing and joining with example code.  
(OR)  
b) Summarize functions used on lists
18. a) Explain passing and returning list from a Function with example code.  
(OR)  
b) Outline tuple methods with an examples
19. a) Discuss file methods to read and write data  
(OR)  
b) Examine need of Dictionaries and traversing dictionaries.
20. a) Describe Operator overloading with relevant example  
(OR)  
b) Analyze Inheritance and its types