

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2023-24 ONLY)

SUBJECT CODE

23UBC515

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2025

B.C.A
SEMESTER V

MAXIMUM MARKS: 75
TIME : 3 HOURS

PART – III
PYTHON PROGRAMMING

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. What do we use to define a block of code in Python language?
a. Key b.Brackets c. Indentation d. Paranthesis
2. Which of the following declarations is INCORRECT in python language?
a. xyzp = 50,60,34,78 b. x y z p = 5 6 7 8
c. x,y,z,p = 25,34,56,34 d. x_y_z_p = 50,0,21,23
3. The "list" in python language is_____.
a. Mutable b. Immutable c. Unique d. Constant
4. What will be the output of the following code? print(type(dir()))
a. <class 'tuple'> b. <class 'str'> c. <class 'list'> d. <class 'dict'>
5. Which of the following blocks will always execute regardless of an exception?
a. try b. except c. else d. finally

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Define the subscript Operator in Python. Give an example.
7. Identify the looping structure in Python
8. List the benefits of recursive function.
9. Define Class. Give an example.
10. Extract the try-except Statement in Python.

SECTION – B

(5 X 5 = 25 MARKS)

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

(K3)

11. a) Elucidate the various data types in Python with examples.

(OR)

- b) Examine the precedence of operators that affects an expression evaluation with example.

12. a) Explain the various control statements in Python with suitable example.

(OR)

- b) Elaborate the Tuple operations in Python with example.

(CONTD 2)

- 13.a) Discuss the Types of Function Arguments
(OR)
b) Discuss the different string functions in Python with suitable example.
14. a) Elaborate the concept of abstract classes with example program.
(OR)
b) Explain the concept of operator overloading in python with Example.
- 15.a) Describe Exception handling and write an example for Divide by zero exceptions.
(OR)
b) Elaborate Directory and File manipulation in Python with example.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(K4 (Or) K5)**

16. a) Explain the types of operators with example.
(OR)
b) Write a Python program that demonstrates the use of built-in functions, a user-defined function, comments, and proper indentation.
17. a) Explain the concept of looping statements. Write a python program to print different patterns using loops.
(OR)
b) Elaborate dictionaries and its operations with example.
18. a) Write the following python code.
i) Function to find maximum of 3 numbers:
ii) Find factorial for the given number using recursion.
(OR)
b) Describe Nanospaces in Python Programming.
- 19.a) Elaborate the concept of Objects and classes in python.
(OR)
b) Examine the types of Inheritance.
- 20.a) Explain the Exception handling mechanism in python.
(OR)
b) Write a python program to read a text file from secondary memory and write specified text to existing file.