



## Introduction to Python Programming (BPLCK205)

### Question Bank IA-I

- Q1. List and explain different features of Python programming language.
- Q2. List out the different types of operators available in Python programming language. Illustrate each with a suitable example.
- Q3. What are variables and data types in Python?
- Q4. Define the rules for naming a variable with an example.
- Q5. Evaluate the following expression by applying the operator precedence and associativity rules

For  $a=5$ ,  $b=3$ ,  $c=12$ ,  $d=10$  and  $e=3$

$a+b**(c//d)*e$  ii.  $a*(e+c)-d/b$

- Q6. Compare and contrast C and Python.
- Q7. Describe the different types of conditional statements of Python programming language with suitable examples.
- Q8. Describe the different types of looping statements of Python programming language with suitable examples.
- Q9. What are the local and global scope of variables in python? Explain the different scenarios with an example snippet.
- Q10. Define list. List out the important features of the list and demonstrate how to add an element to the list using the + operator, append( ), and insert ( ) methods.
- Q11. Explain the importance of the following list methods:

remove( )	index( )	sum( )	count( )	pop( )	reverse( )	sort( )
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- Q13. Explain the concept of slicing and indexing in the list.
- Q14. Define functions. Explain Python functions with parameters and return statements
- Q15. Explain any 4 string Handling Functions.
- Q16. Develop a Python program using the function to calculate the factorial of a number.
- Q17. write a program to compute binomial coefficient given N and R.
- Q18. WAP Using Python function with suitable parameters to generate first N Fibonacci numbers
- Q19. WAP to demonstrate divide by zero error using exception handling.
- Q20. Create a List of 10 elements, and demonstrate the following:
1. Delete an element in the list
  2. Pop an element in the list
  3. Remove an element in the list
  4. Clear the elements in the list.