

# CBCS SCHEME

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BPLCK205B

**Second Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026**  
**Introduction to Python Programming**



Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
 2. M: Marks, L: Bloom's level, C: Course outcomes.*

Module – 1				M	L	C
Q.1	a.	Explain the following functions with examples: i) input      ii) print      iii) len      iv) str	08	L2	CO1	
	b.	Explain if and elif control statements with syntax and flowchart.	06	L2	CO1	
	c.	Develop a program to generate Fibonacci sequence of length (N). Read N from console.	06	L2	CO1	
<b>OR</b>						
Q.2	a.	Explain the following with example: i) Def statement with parameters ii) Parameters and Return values	06	L2	CO1	
	b.	How to handle exception in python with example.	05	L2	CO1	
	c.	Explain the following with syntax and example: i) for loop      ii) break      iii) continue	09	L3	CO1	
<b>Module – 2</b>						
Q.3	a.	Explain the use of in and not in operator in list with examples.	06	L2	CO2	
	b.	Explain Negative Indexing, Slicing, index( ), append( ), remove( ), pop( ), insert( ), and sort( ) with suitable example.	08	L2	CO2	
	c.	Write about mutable and immutable data type in list.	06	L2	CO2	
<b>OR</b>						
Q.4	a.	Define Dictionary. Explain the following methods of dictionary: (i) setdefault      (ii) get      (iii) keys      (iv) items	10	L2	CO2	
	b.	Develop a program to read the student details like Name, USN and Marks in three subjects. Display the student details, total marks and percentage with suitable messages.	10	L2	CO2	
<b>Module – 3</b>						
Q.5	a.	Illustrate with example opening of a file with open( ) function, reading the contents of the file with read( ) and writing to files with write( ).	10	L2	CO3	
	b.	Explain how to save variable with the shelve module.	10	L2	CO3	

OR

Q.6	a.	Explain any 5 string methods with syntax and example.	10	L3	CO3
	b.	Explain how individual elements of a string are accessed. How to extract a part of string? Explain with examples.	10	L3	CO3

Module – 4

Q.7	a.	Explain permanent delete and safe delete with a suitable python programming example to each.	08	L2	CO3
	b.	Develop a program to backing up a given folder (Folder in a current working directory) into a ZIP file by using relevant modules and suitable methods.	06	L3	CO3
	c.	Explain the role of Assertions in Python with a suitable program.	06	L2	CO3

OR

Q.8	a.	Explain the functions with examples : i) Shutil.copytree( )      ii) Shutil.move( )      iii) shutil.rmtree( )	06	L3	CO3
	b.	Develop a python program to traverse the current directory by listing subfolders and files.	06	L2	CO3
	c.	Explain the support for Logging with logging module in python.	08	L2	CO3

Module – 5

Q.9	a.	Explain about class and objects with an example.	10	L2	CO4
	b.	Explain with example about pure function and modifier.	10	L2	CO4

OR

Q.10	a.	Explain the methods <code>_init_</code> and <code>_str_</code> with suitable code example to each.	06	L2	CO4
	b.	Explain the program development concept 'prototype and patch' with suitable example.	06	L2	CO4
	c.	Define a function which takes two objects representing complex numbers and returns new complex number with addition of two complex numbers. Define a suitable class 'complex' to represent the complex number. Develop a program to read N ( N >= 2 ) complex numbers and to compute the addition of N complex numbers.	08	L3	CO4

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