

CBCS SCHEME

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BPLCK105B

First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026

Introduction to Python Programming

Time: 3 hrs.

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					
Q.1	a.	Explain the use of else in For and While loop with suitable examples.	M	L	C
			10	L2	CO1
	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	L3	CO1
OR					
Q.2	a.	Explain different flow control statements with syntax and example.	10	L2	CO1
	b.	With suitable examples, examine the functions : str() , int() and float() .	10	L3	CO1
Module – 2					
Q.3	a.	Distinguish between Lists and Tuples with suitable example code snippet.	10	L2	CO2
	b.	Develop a Python code to input information about 20 students as : i) Roll numbers ii) Name iii) Total marks. Get the input from the user.	10	L3	CO2
OR					
Q.4	a.	Explain append() and index() functions of list data type in Python with suitable code snippet.	10	L2	CO2
	b.	Tuples are immutable. Illustrate with suitable code snippet.	10	L2	CO2
Module – 3					
Q.5	a.	Differentiate absolute path and relative path with code snippet.	10	L3	CO3
	b.	Illustrate the following string methods with examples : i) isalpha ii) isalnum iii) isspace iv) istitle v) join()	10	L2	CO3
OR					
Q.6	a.	Develop a program to print 10 most frequently appearing words in a text file.	10	L3	CO3
	b.	Describe the concept of file handling. Also illustrate the reading and writing process with example.	10	L2	CO3
Module – 4					
Q.7	a.	Demonstrate the working of os.walk() with example.	10	L2	CO4
	b.	Describe the following : i) Assertions ii) Compressing files	10	L2	CO4

OR

Q.8	a.	What is Traceback in Python? Demonstrate the traceback with example.	10	L2	CO4
	b.	Illustrate the five buttons available in debug control window.	10	L2	CO4
Module - 5					
Q.9	a.	Interpret the significance of <code>__init__()</code> and <code>__str__()</code> method with example.	10	L2	CO5
	b.	Develop a program for constructing the rectangle using the concept of object oriented programming.	10	L3	CO5
OR					
Q.10	a.	Explain any Polymorphism of Operator overloading used in OPP.	10	L2	CO5
	b.	Develop a program that uses class student which prompts the user to enter marks in three subjects and calculate total marks and percentage.	10	L3	CO5
