

CBCS SCHEME

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BPLCK105B

First Semester B.E./B.Tech. Degree Examination, June/July 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				M	L	C
Q.1	a.	Write a program in python to read employee data from the console and print the details using suitable messages. Input Data: Employee Name, Id, Salary, address.	6	L3	CO1	
	b.	Explain the following statements in python with syntax and examples. i) If statement ii) If – else statement iii) If – elif – else statement.	8	L2	CO1	
	c.	Explain two ways of importing modules into application in python with syntax and examples.	6	L2	CO1	
OR						
Q.2	a.	Explain the following control transfer statements in python with examples.	8	L2	CO1	
	b.	Explain four scope rules of variables in python.	6	L2	CO1	
	c.	Write a function in python to find the factorial of a number. Develop a program to compute binomial coefficient.	6	L3	CO2	
Module – 2						
Q.3	a.	Read N numbers from console or create a list. Develop a program to find the largest and smallest among the list.	8	L3	CO2	
	b.	Explain with an example to each. i) get () ii) set default ()	6	L2	CO2	
	c.	Explain append () and index () functions with respect to list in python.	6	L2	CO2	
OR						
Q.4	a.	Read a multi-digit number (as chars) from the console. Develop a program to print the frequency of each digit with messages.	7	L3	CO3	
	b.	Tuples are immutable. Explain with python program example.	6	L2	CO2	
	c.	Develop a program to swap cases of given string. Input : Python Output : PYTHON	7	L3	CO3	

Module – 3					
Q.5	a.	Explain reading and saving python program variables using shelve module with messages.	8	L2	CO3
	b.	Explain Join() and Split() methods with examples.	8	L2	CO3
	c.	Write a program in python to read and print the contents of a text file.	4	L3	CO3
OR					
Q.6	a.	Explain python string handling methods with examples : startswith (), rjust(), strip(),rstrip().	12	L2	CO3
	b.	Explain with suitable python program segments : i) os.path.base name() ii) os.path.join()	8	L2	CO3
Module – 4					
Q.7	a.	Develop a program to backing up a given folder into a zip file by using relevant modules and suitable methods.	8	L3	CO3
	b.	Explain the benefits of logging module giving suitable example.	6	L2	CO3
	c.	List the differences between shutil.copy() and shutil.copytree()	6	L2	CO3
OR					
Q.8	a.	What are assertions and raising an exception?	6	L2	CO3
	b.	Develop a python program the traverse the current directory by listing sub.folders and files.	8	L3	CO3
	c.	Explain IDLE's Debugger.	6	L2	CO3
Module – 5					
Q.9	a.	Define Pure function and Modifier. What is the role of pure function and modifiers in applications development with suitable python program?	8	L2	CO4
	b.	Briefly explain printing of an object with an example.	6	L2	CO4
	c.	Explain the program development concept 'Prototype and Patch' with example.	6	L2	CO4
OR					
Q.10	a.	Explain the following with syntax and suitable code snippet : i) Class definition ii) Instantiation iii) Passing and instance (or object) as argument iv) Instances as return values	10	L3	CO4
	b.	Develop a program that uses class student, which prompts the user to enter marks in three subjects and calculate total Marks, Percentage and display the score card details.	10	L3	CO4
