



Third Semester B.E./B.Tech. Degree Examination, June/July 2026 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.	Describe values and types with example. Explain operators and operands with an example.	10	L2	CO1
	b.	With a neat diagram, explain the computer hardware architecture.	10	L2	CO1
OR					
Q.2	a.	Explain variables with an example, with a python program which prompts the user for a Celsius temperature, convert the temperature to Fahrenheit and print out the converted temperature.	10	L2	CO1
	b.	Explain Interpreter and compiler and also explain the different types of errors.	10	L2	CO1
Module – 2					
Q.3	a.	Illustrate Chained and Nested conditional execution in python using example.	10	L2	CO2
	b.	Explain math function and type conversion functions. Write a program for pay computation with time and a half for overtime and create a function called computer-pay which takes two parameters. (hours and rate)	10	L2	CO2
OR					
Q.4	a.	Define “function definition”. Discuss the adding new functions with an example.	10	L2	CO2
	b.	Illustrate alternative conditional execution. Explain catching exceptions using try and except with a program to prompt for a score between 0.0 and 1.0. If the score is out of range print an error message. If the score is between 0.0 and 1.0 print a grade using the following table : Score Grade >= 0.9 A >= 0.8 B >= 0.7 C >= 0.6 D < 0.6 F	10	L2	CO2

Module – 3

Q.5	a.	With a neat flow diagram and program, explain the concept of for loop. Write a program to find smallest in a sequence.	10	L3	CO3
	b.	Define String. Explain string slices with syntax and explain in detail how to find length of given string.	10	L2	CO3

OR

Q.6	a.	Illustrate string comparison and string concatenation.	10	L3	CO3
	b.	Explain while loop with a flow diagram and program.	10	L2	CO3

Module – 4

Q.7	a.	Illustrate the searching through a file with an example.	10	L3	CO4
	b.	Define file handle. With an example program, explain in detail how to open a file in python.	10	L2	CO4

OR

Q.8	a.	Interpret the reading and writing of file in a python.	10	L3	CO4
	b.	Using try, except and open write a python code to open a file and count the lines in the file which begin with a pattern. Explain the extraction of data using regular expression.	10	L2	CO4

Module – 5

Q.9	a.	Name the operations that performed on a list and outline any four with an example.	10	L2	CO4
	b.	Write a program to explain the concept of assigning the values in tuple and deleting tuple elements.	10	L2	CO4

OR

Q.10	a.	Describe the list slices and deleting element from a list. Write a program to compute average without a list.	10	L2	CO4
	b.	Define dictionary in python. Explain dictionary as set of counters.	10	L2	CO4
