5/10/26 AN

MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM – 686 666.
(GOVERNMENT AIDED AUTONOMOUS ENGINEERING COLLEGE)

DEPARTMENT OF MECHANICAL ENGINEERING

FIRST SESSIONAL EXAMINATION, OCTOBER 2026
S1 MECHANICAL B BATCH

B24ES1T01B: PROBLEM SOLVING AND PROGRAMMINGTECHNIQUES (B)

Time –1.5 Hours **Max: 40 Marks**

PART-A
Answer All Questions.

1	How do you receive user input in Python? Write a code snippet to accept an integer value from the user.	**CO1**	**3 Marks**
2	What is precedence of operators in Python language? Explain	**CO1**	**3 Marks**
3	Differentiate between *for loop* and *while loop* with syntax for each.	**CO2**	**3 Marks**
4	How does the continue statement differ from the break statement?	**CO2**	**3 Marks**

PART - B
Answer All Questions.

5	What is a flowchart? Explain. Draw the flowchart for finding Factorial of a number	**CO1**	**14 Marks**
6	What is a nested loop? Write a python program to print the prime numbers from 1 to 100.	**CO2**	**14 Marks**

Vision
Mentoring to ensure Excellence
Mission
To facilitate comprehensive and integrated development of students by providing quality education that encourages sustainable practices
To mould disciplined and socially committed engineers capable of assuming professional leadership upholding national integrity

Question No.	1	2	3	4	5	6	Max. Marks
CO Mapping	1	1	2	2	1	2	
Blooms Taxonomy level	L2	L2	L2	L2	L2	L3	
Marks	3	3	3	3	14	14	40

	Prepared by	Scrutinized by	Approved by HOD
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