

QP Code: D134333		Total Pages: 1	Name:
			Register No.
<b>THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025</b>			
<b>(CUFYUGP)</b>			
<b>CSC3MN201 - PYTHON PROGRAMMING FOR SCIENCE</b>			
<b>2024 Admission onwards</b>			
Maximum Time: 2 Hours		Maximum Marks: 70	
<b>Section A</b>			
<b>All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)</b>			
1	Explain multiple assignment in Python with an example.		
2	Write a Python program to take user input and check if it is a vowel or consonant.		
3	Differentiate between expressions and statements in Python.		
4	Explain boolean expressions with an example.		
5	Create a tuple of 5 elements and access the last element.		
6	Write a Python program to import and use the math.sqrt() function.		
7	Explain the difference between for and while loops.		
8	Write a Python program to print numbers from 1 to 20 divisible by 3.		
9	Write code to delete an element from a list by index.		
10	Explain the purpose of comments and indentation in Python.		
<b>Section B</b>			
<b>All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)</b>			
11	Write a program to print multiplication table of a given number using for loop.		
12	Demonstrate nested if statements with a suitable example.		
13	Write a Python function to check if a given string is a palindrome.		
14	Create a dictionary of 5 key-value pairs and demonstrate how to access all keys and values.		
15	Explain list slicing with examples.		
16	Write a Python program to generate 5 random integers between 1 and 50 using random module.		
17	Write a recursive Python function to calculate the sum of first n natural numbers.		
18	Explain importing multiple functions from Python libraries with examples.		
<b>Section C</b>			
<b>Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)</b>			
19	Write a Python program to demonstrate all types of loops and control statements.		
20	Explain string manipulation techniques in Python with suitable examples.		