D

Maximum Marks: 10	**Semester: July 2024 – Oct 2025** Debug Test	**Duration : 10 min**
Programme: B.Tech	**Class:** FY	**Semester:** I (SVU 2023)
Name of the Constituent College:	**K. J. Somaiya College of Engineering**	
Course Code: 216U06L101	**Name of the Course: Python Programming**	
Roll No:	**Name:**	
Division and Batch:	**Sign:**	

Instruction:-
There will be logical, syntax errors, or missing statements (more than one line) in the given program. A student needs to identify and correct it. If needed type the corrected code accordingly in the given format.

Line no	Error	Explanation	corrected code

Question	WAP to do basic Arithmetic Operations

```
1.  def calculator(num1, num2, operation):
2.     if operation == '+':
3.         return num1 + num2
4.     elif operation == '-':
5.         return num1 - num2
6.     elif operation ==  '*':
7.         return num1 * num2
8.     if num2 == 0:
9.         print("Enter non-zero number")
10.    elif operation == '/':
11.        return num1 / num2
12.    else:
13.        return "Invalid operation"
14.
15. num1 = float(input("Enter first number: "))
16. num2 = float(input("Enter second number: "))
17. operation = input("Enter operation (+, -, *, /): ")
18.
19. result = calculator(num1, num2, operation)
20. print(f"The result is: {result}")
21.
```

Line no	Error	Explanation	Corrected code	Marks
2	Incorrect Syntax	Missing Colon at the end of if	if operation == '+':	1
4	Missing statements	Added the elif operation statement for '-' operator	**elif operation == '-':**	2
6	Incorrect Syntax	Character Check Syntax	'*'	1
8	Missing Condition Statement	Condition check for denominator in division operation	**num2 == 0:**	1
12	Incorrect Syntax	Missing Colon at the end of else	else:	1

15	Incorrect Syntax	Double Inverted commas inside print	("Enter first number: ")	1
16	Missing statement	Taking user input for num2	**num2 = float(input("Enter second number: "))**	2
17	Incorrect Syntax	Double Inverted commas inside print	input("Enter operation (+, -, *, /): ")	1