SOMAIYA VIDYAVIHAR UNIVERSITY

Semester: July 2025 – Nov 2025		
Maximum Marks: 10	Debug Test	**Duration : 10 min**
Programme: B.Tech	**Class:** FY	**Semester:** I **(SVU 2025)**
Name of the Constituent College: K. J. Somaiya School of Engineering		
Course Code: 316U06L101	**Name of the Course: Structure Programming methodology**	
Roll No:	**Name:**	
Division and Batch:	**Sign:**	

Instruction:-
There will be logical, syntax error, 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 given format.

Line no	Error	Explanation	corrected code

Question	**C++ program to print the diagonal elements** of a square matrix

```
1.  #include <iostream>
2.  using namespace std;
3.  void printDiagonal(int matrix[10][10], int n) {
4.      cout << "Diagonal elements of the matrix are: ";
5.      for (int i = 0; i < n; ++i) {
6.          cout << matrix[i][i] << " ";
7.      }
8.      cout << endl;
9.  }
10. int main() {
11.     int matrix[10][10], n;
12.     cout << "Enter the order of the square matrix: ";
13.     cin >> n;
14.     cout << "\nEnter elements of the matrix:\n";
15.     for (int i = 0; i < n; ++i) {
16.         for (int j = 0; j < n; ++j) {
17.             cin >> matrix[i][j];
18.         }
19.     }
20.     cout << "\nMatrix entered:\n";
21.     for (int i = 0; i < n; ++i) {
22.         for (int j = 0; j < n; ++j) {
23.             cout << matrix[i][j] << " ";
24.         }
25.         cout << endl;
26.     }
27.     // Function call to print diagonal elements
28.     printDiagonal(matrix, n);
29.     return 0;
30. }
```

Line no	Error	Explanation	corrected code	marks
