

QP CODE 2090551303

Reg. No

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



# DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – JUNE 2024

Semester: IX

055 EL 013 C# AND .NET PROGRAMMING

Time: 3:00 Hours

Max. Marks: 100

Answer any FIVE Questions (5 x 20 = 100 Marks)

1. a) Explain the key features and advantages of the C# programming language. (10 Marks)  
b) Define literals in C#. Discuss the different types of literals and provide examples of each. (10 Marks)
2. a) Explain the concept of classes and objects in C#. (10 Marks)  
b) Describe the concept of inheritance in C#. (10 Marks)
3. a) Differentiate between Single Document Interface (SDI) and Multiple Document Interface (MDI) applications in Windows programming. (10 Marks)  
b) Describe how to create custom Windows forms in C#? (10 Marks)
4. a) Discuss the importance of transaction handling in web applications. (10 Marks)  
b) To write a Factorial program in C#.   
Input:  
Enter any Number: 6  
Output:  
Factorial of 6 is: 720 (10 Marks)
5. a) Explain the concept of assemblies in .NET. (10 Marks)  
b) What are attributes in .NET? (10 Marks)
6. a) Explain the concept of operators in C#. Discuss the classification of operators into arithmetic, relational, logical, assignment, and bitwise operators. (10 Marks)  
b) Describe different types of loops available in C# with examples. (10 Marks)
7. a) Describe how metadata is viewed and accessed in .NET applications. (10 Marks)  
b) Discuss the process of type discovery and reflection on types in .NET. (10 Marks)