



RAN-2511001104011001

B.Sc. (IT) (NEP) (Sem.- IV) Examination March - 2026

C#. NET (Paper - 403)

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) All questions are compulsory. (3) Give examples wherever applicable.	Seat No.: <table border="1" style="width: 100%;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Student's Signature						

- Q.1. Answer any 3 out of 4 (12)**
- Define CTS (Common Type System) and CLS (Common Language Specification). (4)
 - Explain "Garbage Collection" and how it manages memory in .NET. (4)
 - List and explain any four access modifiers available in C#. (4)
 - What are Namespaces? Explain the importance of the using directive. (4)
- Q.2. Answer any 3 out of 4 (15)**
- Explain the Hashtable collection. Write code to store and retrieve data using keys. (5)
 - What is Boxing and Unboxing? Provide a code example for each. (5)
 - What is dialog box? Explain any two dialog boxes in detail. (5)
 - Write a C# program to move selected items from one ListBox to another on a button click. (5)
- Q.3. Answer any 2 out of 3 (14)**
- Explain Mouse Events (MouseDown, MouseEnter) and Keyboard Events (KeyPress, KeyDown). (7)
 - Discuss the Timer control. Design a WinForms "Digital Clock" application. (7)
 - Explain FlowLayoutPanel and TableLayoutPanel and how they manage responsive design. (7)
- Q.4. Answer any 2 out of 3 (9)**
- Explain ADO.NET Data Providers and its usage. (4)
 - Explain how to execute a Stored Procedure using ADO.NET. (5)
- OR**
- Distinguish between DataReader and DataSet based on performance and functionality. (5)