

RAN-2111040102030002
MCA (Sem.-II) Examination April - 2026
Programming in.NET (Paper-203)
Time: 3 Hours]
[Total Marks: 70

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book.	Seat No.: Student's Signature
--	--

- Q. 1. Answer in Short. (any Seven) 14**
- What is the purpose of the Common Language Specification?
 - Explain with a suitable example, boxing.
 - Difference between Array and List.
 - Explain in brief the static members of the class.
 - Differentiate between String and StringBuilder
 - What are "sealed" and "abstract" classes?
 - What is a pop-up menu?
 - What is the importance of finally in managed code?
- Q. 2. Explain in Detail. (any two) 14**
- Features and Design Principle of .NET architecture.
 - Explain the architecture of the .NET platform. Describe the role of CLR, CTS, and CLS in detail.
 - Discuss value types and reference types with examples. Give the difference between them.
- Q. 3. [A] Describe dialogue boxes. Differentiate between modal and modeless dialogue boxes. 07**
- OR**
- Q. 3. [A] Give a suitable example of how to create and use a dynamic control in an application. 07**
- Q. 3. [B] Explain in detail Exception Handling in .NET application. 07**
- Q. 4. Answer the following Questions (any two) 14**
- What is abstraction? Explain abstract classes and interfaces with examples.
 - Explain the concept of delegates. Give a suitable example.
 - What is connected data access? Explain with a suitable example.

Q. 5. [A] Explain with a suitable example how to load data in a gridview and a combo box from a database. **08**

Q. 5. [B] **Answer in brief. (any two)** **06**

1. Explain with an example any controls with their event handling, except the button.
 2. Explain the different types of inheritance supported in C#.
 3. How to achieve dynamic polymorphism? Explain using an example.
-