



RAN - 2111040102030002

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**MCA (Sem. II) Examination May - 2023**

**Programming in .NET : Paper - 203**

**Time: 3 Hours ]**

**[ Total Marks: 70**

**સૂચના : / Instructions**

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

☛ **MCA (Sem. II)**

Name of the Subject :

☛ **Programming in .NET : Paper - 203**

Subject Code No.: **2111040102030002**

Seat No.:

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Student's Signature

**Q. 1 (A) What is CLS? How is it useful in .Net Framework? [06]**

**OR**

- (A) Explain conversion process from C#.Net code to MSIL in detail.  
(B) Is it possible to extract assembly contents? If yes explain with example. [05]  
(C) Write a note on use of Base Class Library in .Net. [03]

**Q. 2 (A) What is Event? How to handle user defined event for a class? [06]**

- (B) What is List type in C#? How is it different from Array type? [05]  
(C) Explain boxing and unboxing with example. [03]

**OR**

- (C) Explain type conversion in C# with example.

**Q. 3 (A) What is overloading? Explain any one type in detail with example. [06]**

**OR**

- (A) Explain Hierarchical Inheritance with example.  
(B) Explain difference between Abstract class and Interface. [05]  
(C) Write a short note on data encapsulation in C# with example. [03]

**Q. 4 (A)** Give difference between Modal and Modeless dialog boxes with example. **[06]**

**OR**

**(A)** What is MDI application? How is it different from SDI application.

**(B)** Explain basic concept of Menu in Windows Forms application. **[05]**

**(C)** How can we validate TextBox input for only alphabets in Windows forms application? **[03]**

**Q. 5 (A)** What is Exception? List different types of SQL Exception and explain in which situation they occur in .Net application. **[06]**

**(B)** What is DataSet? How is it useful for disconnected data architecture in .Net application. **[05]**

**OR**

**(B)** Explain importance of Data Adapter in ADO .Net with example.

**(C)** What is the structure of LINQ query? How is it different from SQL query? **[03]**

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