



13MCA53

**Fifth Semester MCA Degree Examination, June/July 2019**  
**Programming Using C# .NET**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

1. a. Bring out the benefits of .NET framework architecture. (06 Marks)  
b. Explain common language runtime of .NET in detail. (08 Marks)  
c. Write about the common type system of .NET. (06 Marks)
2. a. Explain in detail about assembly in .NET and its variations. (10 Marks)  
b. How is data encapsulation implemented using property concept? (05 Marks)  
c. Give the format of class and illustrate the anatomy of a simple C# program. (05 Marks)
3. a. Bring out the importance of namespace in .NET. (06 Marks)  
b. What are partial classes and partial methods in C#? (06 Marks)  
c. Explain about the parameter modifiers used in the methods in C#. (08 Marks)
4. a. What is an interface? Illustrate with suitable example. (08 Marks)  
b. What is method overriding? Illustrate with an example. (06 Marks)  
c. What are sealed classes and sealed methods in .NET? (06 Marks)
5. a. What are delegates? Illustrate the use of multicast delegate with an example. (10 Marks)  
b. Discuss in detail the keywords used with exceptions. Illustrate an example of multicatch exceptions. (10 Marks)
6. a. Illustrate a simple event driven GUI under windows forms in .NET. (06 Marks)  
b. What is a combobox control in windows applications? Explain the common properties used with combobox control? (08 Marks)  
c. What is an MDI form (Multiple Document Interface)? (06 Marks)
7. a. Explain the ADO .NET architecture. (08 Marks)  
b. What is the use of connection strings in .NET? (06 Marks)  
c. What are the components of the data set? (06 Marks)
8. a. Explain any two validation controls the ASP.NET. (10 Marks)  
b. Write short notes on:  
(i) Preprocessor directives (ii) Sessions (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.