

**Duration: 3 hours**

**[Total Marks :80]**

- N.B**
- (1) Question No.1 is compulsory.
  - (2) Answer any **three** questions from Question Nos. 2 to 6.
  - (3) Figures to the right indicate full marks.

1. Write a note on following (Any Four) (20)
  - (i) Data Bound Controls
  - (ii) LINQ
  - (iii) Assemblies
  - (iv) WCF contracts
  - (v) Static keyword
2. (a) Explain working of CLR in detail. What is managed code and unmanaged code? (10)  
(b) Explain UDDI, SOAP, and WSDL with respect to web services. What is the difference between Web Services and WCF? (10)
3. (a) Explain (1) Sealed Classes (2) abstract classes in C# with example. (10)  
(b) What is Page Event? Explain the Page Life Cycle of ASP.NET page with an example. (10)
4. (a) Explain the server side state management in ASP.NET. Explain use of global.asax file. (10)  
(b) What is the use of Generics in C#? Explain with suitable example. (10)
5. (a) What is ADO.NET? Explain disconnected architecture with example. (10)  
(b) What is AJAX? Explain UpdateProgress control and Timer control with suitable example. (10)
6. (a) What is Polymorphism? How will you achieve run-time polymorphism in C# with example. (10)  
(b) List the different classes which are used in C# for file handling? Explain any two classes with the help of example. (10)