Total Marks: 80   **Time: 3 hours**

N.B: 1) Question No.1 is **compulsory.**

2) Attempt any **three** from the remaining **five** questions.

1. (a) What is state management? Explain different ways to handle at client (10)
         and Server side in ASP.NET?

    (b) What is AJAX? Explain Timer Control and UpdatePanel control with (10)
         suitable example.

2. (a) Explain Life Cycle of ASP.NET web page with an event?   (10)

    (b) What is Generics? Explain Generic classes, functions and constraints (10)
         on generics.

3. (a) What is LINQ? Explain how to map your data model to an object (10)
         model?

    (b) Explain architecture of WCF with different types of contract?   (10)

4. (a) Explain how to create and consume XML web services with web (10)
         service architecture?

    (b) i) Explain types of assembly with structure.   (10)
         ii) Explain the working of CLR with features.

5. (a) Explain the architecture of DOT NET framework with diagram?   (10)

    (b) Explain various data bound controls using any one data source control (10)
         with an example?

6. (a) What is ADO.NET? Explain connected and disconnected architecture (10)
         with an example.

    (b) Explain in details Postback and Crosspage posting in Asp.Net.   (10)

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