**Basic .NET, ASP.NET, ADO.NET, OOPS and SQL Server** [**Interview questions**](http://www.onlinebuff.com) **and answers.**

* What is IL code, CLR, CTS, GAC & GC?
* How can we do Assembly versioning?
* can you explain how ASP.NET application life cycle and page life cycle events fire?
* What is the problem with Functional Programming?
* Can you define OOP and the 4 principles of OOP?
* What are Classes and Objects?
* What is Inheritance?
* What is Polymorphism, overloading, overriding and virtual?
* Can you explain encapsulation and abstraction?
* What is an abstract class?
* Define Interface & What is the diff. between abstract & interface?
* What problem does Delegate Solve ?
* What is a Multicast delegate ?
* What are events and what's the difference between delegates and events?
* How can we make Asynchronous method calls using delegates ?
* What is a stack, Heap, Value types and Reference types ?
* What is boxing and unboxing ?
* Can you explain ASP.NET application and Page life cycle ?
* What is Authentication, Authorization, Principal & Identity objects?
* How can we do Inproc and outProc session management ?
* How can we windows , forms and passport authentication and authorization in ASP.NET ?
* In a parent child relationship which constructor fires first ?

**MVC ASP.NET Q & A series**

* How to create a simple "Hello World" using ASP.NET MVC template? - Lab 1
* How to pass data from controller to views? - Lab 2
* Can we see a simple sample of model using MVC template? - Lab 3
* How can we create simple input screens using MVC template? - Lab 4
* How can we create MVC views faster and make them strong typed by using HTML helper? - Lab 5
* Can we see how easy it is do unit testing for MVC application? - Lab 6
* What is MVC routing? - Lab 7
* How can we set default values & validate MVC routes? - Lab 8
* How we can define actions & navigate from one page to other page? - Lab 9

**.NET best practices and SQL Server Training / Interview Questions and Answers**

* Basics :- Query plan, Logical operators and Logical reads
* Point 1 :- Unique keys improve table scan performance.
* Point 2 :- Choose Table scan for small & Seek scan for large records
* Point 3 :- Use Covering index to reduce RID (Row Identifier) lookup
* Point4:- Keep index size as small as possible.
* Point5:- use numeric as compared to text data type.
* Point6:- use indexed view for aggregated SQL Queries
* Finding high memory consuming functions
* Improve garbage collector performance using finalize/dispose pattern
* How to use performance counters to gather performance data