1. Answer the following questions in brief: (any seven) 14
   
   (1) Explain the role of controller in MVC web application.
   (2) What is a Cookie? Describe the limitation of cookies.
   (3) Give the difference between user control and custom controls.
   (4) Explain any two important validation controls with suitable example.
   (5) What is the difference between ExecuteScalar and Execute Non Query?
   (6) List main events of ASP.Net page lifecycle.
   (7) What is the significance of Auto Post Back property of various ASP.Net controls?
   (8) How global.asax file is used for web application?
   (9) Which classes and methods are used to send SMS in ASP.Net?

2. Answer the following questions: (any two) 14
   
   (1) Discuss Rich Controls with suitable example.
   (2) Explain navigation control with suitable example.
   (3) Explain the use of 'Master Page' and 'Content Page'. How Master page can be implemented dynamically?
3. Answer the following questions: (any two)
   
   (1) Explain the use of chart control with suitable example. Also write source code for explanation of your answer.

   (2) Explain DataReader class of ADO .Net in detail. How DataReader can be used to bind Control?

   (3) How can we create and manage user Roles in web application.

4. Answer the following questions:

   (1) What is a Web Service? Discuss advantages of Web Service? Which protocols are used in creation and use of Web Services in ASP.net? Explain in brief about each of them.

   (2) What is AJAX? Discuss its merits and demerits. Explain Server Side AJAX Support of ASP.Net

5. Write short note on the following:

   (1) Silverlight

   (2) LINQ.