

Q1	Practical Question	Create a database named "StudentDB" with a table named "Students" containing fields: StudentID (int, primary key), FirstName (varchar), LastName (varchar), and Age (int). Populate the table with sample data.
	Theory Question	1) What is ADO.NET and advantages of ADO.NET 2) What is DataSet in ADO.NET?
Q2	Practical Question	Design a web page (e.g., Default.aspx) with the following elements: A GridView to display the list of students from the database. TextBox controls for entering a new student's FirstName, LastName, and Age. Buttons for "Add Student" and "Refresh List."
	Theory Question	1) What is DataSet in ADO.NET? 2) What is a DataAdapter in ADO.NET?
Q3	Practical Question	Develop an ASP.NET web page that allows users to submit a form with their details (name, email, etc.). Store this information in a database using ADO.NET.
	Theory Question	1) Explain about DataSet types in ADO.NET. 2) What is a DataAdapter in ADO.NET?
Q4	Practical Question	Write a code snippet in C# to validate user input in an ASP.NET web form. Include validation for required fields, email format, and password strength.
	Theory Question	1) Explain about DataSet types in ADO.NET. 2) Compare DataTable and DataSet.
Q5	Practical Question	Develop a web application using ADO.NET in ASP.NET. Utilize a stored procedure to insert data into a database table. Implement a form in your ASP.NET application to take user inputs and invoke the stored procedure to insert the data.
	Theory Question	1) What are the different namespaces available in ADO.NET? 2) Explain the difference between DataTable and DataSet.
Q6	Practical Question	Build a responsive ASP.NET web application for blood bank that incorporates Bootstrap. Create a page with a navigation bar, a responsive grid layout, and an image carousel. Ensure that the layout adjusts gracefully to different screen sizes.
	Theory Question	1) Why choose Bootstrap for building websites? 2) List the components of Bootstrap.
Q7	Practical Question	Develop an ASP.NET form that uses Bootstrap styles. Implement a form with various input elements (textboxes, checkboxes, radio buttons) and apply Bootstrap classes to enhance the visual appeal. Validate user inputs using Bootstrap's built-in validation styles.
	Theory Question	1) Why choose Bootstrap for building websites? 2) List the components of Bootstrap.

Q8	Practical Question	Integrate a Bootstrap modal in an ASP.NET application. Create a button that, when clicked, triggers the display of a modal with relevant information. Include dynamic content in the modal and demonstrate the ability to close it programmatically.
	Theory Question	1) Why choose Bootstrap for building websites? 2) List the components of Bootstrap.
Q9	Practical Question	Enhance an ASP.NET application by incorporating Bootstrap modals for user interactions. Implement a feature that loads data from the server using AJAX when a button inside a modal is clicked. Show how Bootstrap and AJAX work together to improve the user experience.
	Theory Question	1) Why choose Bootstrap for building websites? 2) List the components of Bootstrap.
Q10	Practical Question	<p>Develop a web application in ASP.NET that utilizes different state management techniques. Create a simple webpage with a form containing user input fields. Implement the following state management techniques and demonstrate their usage:</p> <ul style="list-style-type: none"> - View State: <ul style="list-style-type: none"> a) Store a piece of information in the view state, such as a user's input on the form. b) Retrieve and display this information after a postback. - Session State: <ul style="list-style-type: none"> a) Store user-specific data in session state, like user preferences or settings. b) Implement a functionality to clear the session data after a certain event or timeout.
	Theory Question	1) Explain in brief about a) View State b) Session State

Q11	Practical Question	<p>Develop a web application in ASP.NET that showcases the use of different state management techniques. Implement the following functionalities:</p> <ul style="list-style-type: none"> - View State: <ul style="list-style-type: none"> a) Create a web form with a set of controls (e.g., TextBox, DropDownList). b) Use View State to maintain the state of these controls across postbacks. c) Demonstrate how to store and retrieve values in/from the View State. - Session State: <ul style="list-style-type: none"> a) Design a multi-page application with at least two pages. b) Store user-specific information (e.g., username) in the Session State when the user logs in on the first page. c) Retrieve and display this information on the second page.
	Theory Question	1) Explain in brief about a) View State b) Session State
Q12	Practical Question	<p>Develop a web application in ASP.NET that showcases the use of different state management techniques. The application should include the following functionalities:</p> <ul style="list-style-type: none"> - Cookies: <ul style="list-style-type: none"> a) Develop a page with a counter that increments each time the page is loaded. b) Use cookies to persistently store and retrieve the counter value. Display the counter on the page. - Application State: <ul style="list-style-type: none"> a) Implement a feature that maintains a count of the total number of visits to the application. b) Use Application State to store and update the visit count. Display the count on the web page.
	Theory Question	1) Explain in brief about a) Cookies State b) Application State

Q13	Practical Question	<p>Develop a feature-rich ASP.NET web application that includes various validation techniques and utilizes rich controls. The application should have the following functionalities:</p> <p>Form Validation:</p> <ul style="list-style-type: none"> a) Create a web page with a form that collects user registration information (e.g., username, email, password). b) Implement client-side validation using JavaScript/jQuery to ensure that required fields are filled and validate the email format. c) Use ASP.NET validation controls to enforce server-side validation for password complexity.
	Theory Question	<p>1) What are web controls in ASP.NET?</p> <p>2) What are the different validation controls in ASP.NET?</p>
Q14	Practical Question	<p>Develop a feature-rich ASP.NET web application that includes various validation techniques and utilizes rich controls. The application should have the following functionalities:</p> <p>Form Validation:</p> <ul style="list-style-type: none"> a) Create a web page with a form that collects user registration information (e.g., username, email, password). b) Extend the registration form to include a custom validation rule (e.g., mobile numbers must be unique and 10 digits). Implement a custom validator to enforce this rule on the server-side.
	Theory Question	<p>1) What are web controls in ASP.NET?</p> <p>2) What are the different validation controls in ASP.NET?</p>
Q15	Practical Question	<p>Develop an ASP.NET web application that incorporates validation controls and rich user interface elements. The application should have the following features:</p> <p>Form with Validation Controls:</p> <ul style="list-style-type: none"> a) Create a web form with various input fields (e.g., textboxes, dropdowns, checkboxes). b) Implement validation controls (e.g., RequiredFieldValidator, RegularExpressionValidator) to ensure data integrity. c) Include a custom validator for a specific validation scenario.
	Theory Question	<p>1) What are web controls in ASP.NET?</p> <p>2) What are the different validation controls in ASP.NET?</p>