Paper Code: CCCS101	Total Credit : 4
Title of Paper: Advanced Web Programming	**Total Marks :** 70
	Time : 3 Hrs

Unit	Description	Weighting
I	***Introduction to C#:*** C# : Data Types(Boxing and UnBoxing), Operators, Access Specifier, OOPS Concepts: Class, Inheritance, Constructor, Destructor, Abstraction, interface, polymorphism (Over loading and over ridding), Garbage Collection, Array (One Dimensional and Two Dimensional), Jagged Array, Collection: Generic Collection (List),Non Generic Collection (Array list, Hash table,),Indexer(One Dimension) and property, Delegates and events(Multicasting , Multicasting Event),Exception Handling, Introduction to Namespace: Creating & Using Namespace(DLL)	**20%**
II	***ADO.Net*** Architecture of ADO.Net, Comparison with ADO(Connected and Disconnected Architecture),.Net Data provider, Data Adapter, Data Set, Data Row, Data Column, Data Relation, command, Data Reader, Creating and Using Stored Procedure	**20%**
III	***Overview of Asp.NET Framework*** Client Server Architecture, Application Web Servers, Installation of IIS server, Types of Files in Asp.NET, Types of controls in Asp.NET, Page Architecture, Adding Controls to a Webpage, The Page Class, Webfor Introduction to standard Controls (Buttons, Textbox, Checkbox, Label, Panel, List box, Drop down list etc.) Running an Asp.Net Application, File Upload Control What is Validation? Client Side Validation, Server Side Validation Types (RequieredField Validator, Range Validator, CompareField Validator, RegularExpression Validator, Custom Validator, ValidationSummery Control)	**20%**
IV	ASP.NET Page Life Cycle, Server Controls : label, dropdown list box, validation controls, list box, text box, radio button, check box, State Management : session, cookie, View State, Data Rendering Controls: Grid View, Data List, Repeater, Binding and perform operations (Insert, Update, Delete) with Grid View, Creating Simple 3-tier Application, Creating and Using web services. ***Introduction to AJAX*** Understanding Need of Ajax in Web Application, Ajax controls: Script Manager, Update Panel, Update Progress, Timer Reading Datasets From XML Writing DataSets With XML, WebServices (Introduction, HTTP, SOAP, UDDI,XML, Creating a Web Servic, Consuming a Web Service)	**20%**
V	**State Management:** What is State? Why is it Required in Asp.Net? Client Side State Management, Server Side State Management Various State Management Techniques (View State, Query String, Cookie, Session State, Application State) **What is Master Page?** Requirement Of a Master Page in an Asp.NET application Designing Website with Master Page, Theme and CSS	**20%**

	Caching Application pages and Data Overview, Page Output Caching, Partial Page Caching, Absolute Cache Expiration, Sliding Cache Expiration, Data Caching		
Basic Text & Reference Books :-			
1.	Asp.Net – Unleashed		
2.	Complete Reference C# - Herbert schildt (TMH Publication)		

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Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Program based on C#. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Program based on ASP.Net. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	