



**SIDDHARTH GROUP OF INSTITUTIONS:: PUTTUR  
(AUTONOMOUS)**

Siddharth Nagar, Narayanavanam Road – 517583

**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code:** .NET Technologies (20MC9136)

**Course & Branch:** MCA

**Year & Sem:** II-MCA & II-Sem

**Regulation:** R20

**UNIT –I**

**INTRODUCTION TO .NET FRAMEWORK**

<b>1</b>	Explain briefly about Microsoft .NET Framework Architecture.	[L2][CO1]	[12M]
<b>2</b>	a) Explain about goals in .NET Framework.	[L2][CO1]	[06M]
	b) Discuss about .NET in detail.	[L2][CO1]	[06M]
<b>3</b>	a) Explain .NET Assemblies with their types.	[L2][CO1]	[06M]
	b) Explain about Manifest.	[L2][CO1]	[06M]
<b>4</b>	Explain the following a) CLR          b) CTS          c) CLS	[L2][CO1]	[12M]
<b>5</b>	a) Discuss .NET platform with a neat diagram.	[L2][CO1]	[06M]
	b) List and explain various building blocks involved in .NET.	[L2][CO1]	[06M]
<b>6</b>	a) Explain in detail about Common Type System.	[L2][CO1]	[06M]
	b) What is the need of Common Language Specification?	[L1][CO1]	[06M]
<b>7</b>	List out various .NET Framework versions with their features.	[L1][CO1]	[12M]
<b>8</b>	a) What are .NET programming languages?	[L1][CO1]	[06M]
	b) Find the differences between .NET Core and .NET Framework?	[L3][CO1]	[06M]
<b>9</b>	a) Identify the steps involved in compilation of .NET using JIT.	[L3][CO1]	[06M]
	b) Explain how memory management done automatically.	[L2][CO1]	[06M]
<b>10</b>	a) Identify various namespaces and classes used in .NET Programming.	[L3][CO1]	[06M]
	b) List out various methods in Object class.	[L1][CO1]	[06M]

**UNIT –II**  
**INTRODUCTION TO VB.NET**

<b>1</b>	<b>a)</b>	What are the features of VB.Net?	[L1][CO2]	[06M]
	<b>b)</b>	Identify the merits and demerits of VB.NET.	[L3][CO2]	[06M]
<b>2</b>	<b>a)</b>	What is a variable? Explain variable declaration and initialization with example.	[L2][CO2]	[09M]
	<b>b)</b>	What is a constant in VB.NET?	[L1][CO2]	[03M]
<b>3</b>		Demonstrate Arithmetic and Assignment Operators with an example Program in VB.NET.	[L2][CO2]	[12M]
<b>4</b>	<b>a)</b>	List out various Control Statements in VB.NET?	[L1][CO2]	[06M]
	<b>b)</b>	Develop an application to display the numbers from 1 to n in VB.NET.	[L6][CO2]	[06M]
<b>5</b>		Develop a program to demonstrate Comparison and Logical Operators in VB.NET.	[L6][CO2]	[12M]
<b>6</b>	<b>a)</b>	What are the various Conditional Statements in VB.NET?	[L1][CO2]	[06M]
	<b>b)</b>	Develop an application to find biggest of three numbers in VB.NET.	[L6][CO2]	[06M]
<b>7</b>		List various properties for the following controls: i) TextBox ii) Button iii) RadioButton iv)ListBox	[L5][CO2]	[12M]
<b>8</b>		Identify various properties to set and get for windows forms controls.	[L3][CO2]	[12M]
<b>9</b>	<b>a)</b>	What is an MDI Form? Identify the properties to set a form as an MDI Form.	[L3][CO2]	[06M]
	<b>b)</b>	What is a Menu? Explain the properties and events of a Menu in VB.NET.	[L2][CO2]	[06M]
<b>10</b>		Explain the methods to display the output and to read the input values in VB.NET Applications.	[L2][CO2]	[12M]

**UNIT –III**  
**C-SHARP LANGUAGE, OOPS**

<b>1</b>	<b>a)</b>	List some common elements in C#. Explain Namespace.	[L1][CO3]	[06M]
	<b>b)</b>	List various features of C#.	[L1][CO3]	[06M]
<b>2</b>	<b>a)</b>	Explain various Data types in C#.	[L2][CO3]	[06M]
	<b>b)</b>	What are the rules for setting an Identifier?	[L1][CO3]	[06M]
<b>3</b>	<b>a)</b>	What is an array? How can we declare an array?	[L1][CO3]	[04M]
	<b>b)</b>	Explain the types of array with an example.	[L5][CO3]	[08M]
<b>4</b>		Demonstrate various C# conditional statements with example program.	[L2][CO3]	[12M]
<b>5</b>		Demonstrate various C# looping statements with example program.	[L2][CO3]	[12M]
<b>6</b>	<b>a)</b>	Explain class and structures in C# with example program.	[L2][CO3]	[09M]
	<b>b)</b>	Compare class with structures in various categories.	[L4][CO3]	[03M]
<b>7</b>	<b>a)</b>	Demonstrate C# Polymorphism with an example program.	[L2][CO3]	[06M]
	<b>b)</b>	Demonstrate C# Interface with an example program.	[L2][CO3]	[06M]
<b>8</b>	<b>a)</b>	Discuss about Inheritance and its types with an example.	[L6][CO3]	[06M]
	<b>b)</b>	Demonstrate Multilevel inheritance in C# with an example program	[L2][CO3]	[06M]
<b>9</b>	<b>a)</b>	Demonstrate Method Overloading in C# with an example program.	[L2][CO3]	[06M]
	<b>b)</b>	Develop a program that shows how to overload an operator.	[L6][CO3]	[06M]
<b>10</b>	<b>a)</b>	Explain Method Overriding in C# with an example program.	[L2][CO3]	[06M]
	<b>b)</b>	Illustrate various types of Type Conversions in C# with suitable example.	[L2][CO3]	[06M]

**UNIT –IV****APPLICATION DEVELOPMENT USING ADO .NET**

<b>1</b>	<b>a)</b>	Write short notes on ADO .Net providers.	[L1][CO2]	[06M]
	<b>b)</b>	Discuss different ways to access database in ADO .Net?	[L2][CO2]	[06M]
<b>2</b>		Express ADO .Net features and architecture with a neat diagram.	[L6][CO2]	[12M]
<b>3</b>	<b>a)</b>	What is a connection in ADO .Net?	[L1][CO2]	[06M]
	<b>b)</b>	Explain connection opening and closing.	[L2][CO2]	[06M]
<b>4</b>	<b>a)</b>	Write short note on command object.	[L1][CO4]	[06M]
	<b>b)</b>	Explain Dataset with its characteristics.	[L2][CO4]	[06M]
<b>5</b>		Illustrate in detail about creation of a Data table and working with columns.	[L3][CO4]	[12M]
<b>6</b>		Design a registration form in VB for any application and give the steps how your form connect to a database.	[L6][CO4]	[12M]
<b>7</b>	<b>a)</b>	Demonstrate ExecuteNonQuery for inserting a student record.	[L2][CO4]	[06M]
	<b>b)</b>	Demonstrate ExecuteReader for displaying student record.	[L2][CO4]	[06M]
<b>8</b>		Choose the steps to bind the application with the Database in ADO .net using Binding Navigator control	[L5][CO2]	[12M]
<b>9</b>	<b>a)</b>	Identify different ways of interaction with the database in Ado.Net	[L3][CO2]	[06M]
	<b>b)</b>	Why we should use DataReader when working with the DirectDataAccess.	[L4][CO4]	[06M]
<b>10</b>		Differentiate Connected-Oriented Architecture with Disconnected-Oriented Architecture in ADO.Net.	[L4][CO4]	[12M]

**UNIT –V**  
**ASP.NET, CRYSTAL REPORT**

<b>1</b>	<b>a)</b>	Explain the advantages of ASP.Net.	[L2][CO5]	[05M]
	<b>b)</b>	Describe the steps for working with ASP.Net.	[L2][CO5]	[07M]
<b>2</b>		List and explain basic controls in ASP.Net with examples.	[L2][CO6]	[12M]
<b>3</b>	<b>a)</b>	Explain ASP.Net with its benefits.	[L2][CO5]	[04M]
	<b>b)</b>	Explain Hidden Field and Query String to maintain the state management in ASP.	[L2][CO6]	[08M]
<b>4</b>		List and explain validation controls in ASP.Net with examples.	[L2][CO6]	[12M]
<b>5</b>		Illustrate various methods to maintain a states in WebForm.	[L3][CO5]	[12M]
<b>6</b>	<b>a)</b>	What is a session in ASP.Net? Explain Session events.	[L2][CO5]	[06M]
	<b>b)</b>	What is a Cookie? Explain with types.	[L2][CO5]	[06M]
<b>7</b>		List and explain various login controls in ASP.Net	[L2][CO3]	[12M]
<b>8</b>	<b>a)</b>	Discuss about GridView Control with their properties and events.	[L2][CO6]	[06M]
	<b>b)</b>	Explain the use of FormView Control with properties.	[L2][CO6]	[06M]
<b>9</b>		Distinguish in detail about Authentication and Authorization in ASP.	[L4][CO5]	[12M]
<b>10</b>		Discuss in detail about creation of Crystal Report.	[L6][CO6]	[12M]

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