



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR  
(AUTONOMOUS)**

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**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code:** .Net Technologies (19MC9937)

**Course & Branch:** MCA

**Regulation:** R19

**Year & Sem:** III-MCA & I-Sem

**UNIT –I**

**INTRODUCTION TO .NET FRAMEWORK, C#.NET PROGRAMMING**

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|-----------|------------------------------------------------------------------|-----------|-------|
| <b>1</b>  | Explain briefly about Microsoft .net Framework Architecture.     | [L5][CO1] | [12M] |
| <b>2</b>  | a) Explain about goals in .Net framework.                        | [L2][CO1] | [6M]  |
|           | b) Explain .Net platform.                                        | [L2][CO1] | [6M]  |
| <b>3</b>  | Explain in detail about Assemblies.                              | [L5][CO1] | [12M] |
| <b>4</b>  | Explain the following                                            | [L2][CO1] | [12M] |
|           | i) CLR          ii) CTS          iii) CLS                        |           |       |
| <b>5</b>  | a) Demonstrate Polymorphism with its types.                      | [L1][CO2] | [6M]  |
|           | b) Write a program to demonstrate overloading.                   | [L1][CO2] | [6M]  |
| <b>6</b>  | a) Explain class and structures in C# with example program.      | [L2][CO2] | [8M]  |
|           | b) Compare class with structures.                                | [L4][CO2] | [4M]  |
| <b>7</b>  | Discuss about Inheritance and its types with an example.         | [L6][CO2] | [12M] |
| <b>8</b>  | Demonstrate various C# control statements with example programs. | [L2][CO2] | [12M] |
| <b>9</b>  | a) Explain various Data types in C#.                             | [L2][CO2] | [6M]  |
|           | b) Write short notes on interface in C#.                         | [L1][CO2] | [6M]  |
| <b>10</b> | a) What is an array?                                             | [L1][CO2] | [4M]  |
|           | b) Explain the types of array with an example.                   | [L5][CO2] | [8M]  |

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

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|-----------|--------------------------------------------------------------------------|-----------|--------------|
| <b>1</b>  | <b>a)</b> What are the features of VB.Net?                               | [L1][CO2] | <b>[6M]</b>  |
|           | <b>b)</b> List the advantages and disadvantages of VB.Net.               | [L1][CO2] | <b>[6M]</b>  |
| <b>2</b>  | <b>a)</b> Explain various conditional statements in VB.Net with example. | [L5][CO2] | <b>[6M]</b>  |
|           | <b>b)</b> Explain various control statements in VB.Net with example.     | [L5][CO2] | <b>[6M]</b>  |
| <b>3</b>  | Give brief explanation about windows forms controls.                     | [L4][CO2] | <b>[12M]</b> |
| <b>4</b>  | <b>a)</b> Explain about Arrays with example in VB.Net.                   | [L5][CO2] | <b>[9M]</b>  |
|           | <b>b)</b> Explain the declaration of variable in VB.Net.                 | [L2][CO2] | <b>[3M]</b>  |
| <b>5</b>  | Explain with example how to handle the error in VB.Net.                  | [L5][CO2] | <b>[12M]</b> |
| <b>6</b>  | <b>a)</b> Explain in detail about files in VB.Net.                       | [L2][CO2] | <b>[6M]</b>  |
|           | <b>b)</b> Explain in detail about directories in VB.Net.                 | [L2][CO2] | <b>[6M]</b>  |
| <b>7</b>  | Explain various dialog box controls in VB.Net.                           | [L5][CO2] | <b>[12M]</b> |
| <b>8</b>  | Identify various properties to set and get for windows forms controls.   | [L3][CO2] | <b>[12M]</b> |
| <b>9</b>  | <b>a)</b> Identify various components in Windows Application.            | [L3][CO2] | <b>[9M]</b>  |
|           | <b>b)</b> Describe in detail about regular expression with example.      | [L1][CO2] | <b>[3M]</b>  |
| <b>10</b> | Explain in detail about threading with an example.                       | [L2][CO2] | <b>[12M]</b> |

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

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|-----------|----------------------------------------------------------------------------|-----------|-------|
| <b>1</b>  | <b>a)</b> Write short notes on ADO .Net providers.                         | [L1][CO2] | [6M]  |
|           | <b>b)</b> What are the different ways to access database in ADO .Net?      | [L1][CO2] | [6M]  |
| <b>2</b>  | Explain about ADO .Net features and architecture.                          | [L2][CO2] | [12M] |
| <b>3</b>  | <b>a)</b> What is a connection in ADO .Net?                                | [L1][CO2] | [6M]  |
|           | <b>b)</b> Explain connection opening and closing.                          | [L2][CO2] | [6M]  |
| <b>4</b>  | <b>a)</b> Write short note on command object.                              | [L1][CO3] | [6M]  |
|           | <b>b)</b> Explain Dataset with its characteristics.                        | [L2][CO3] | [6M]  |
| <b>5</b>  | List and explain basic controls in ASP.Net with examples.                  | [L5][CO4] | [12M] |
| <b>6</b>  | Explain in detail about creation of a Data table and working with columns. | [L5][CO3] | [12M] |
| <b>7</b>  | <b>a)</b> Explain the advantages of ASP.Net.                               | [L2][CO4] | [6M]  |
|           | <b>b)</b> Describe the steps for working with ASP.Net.                     | [L2][CO4] | [6M]  |
| <b>8</b>  | List and explain validation controls in ASP.Net with examples.             | [L4][CO4] | [12M] |
| <b>9</b>  | <b>a)</b> What is a session in ASP.Net? Explain with example.              | [L2][CO4] | [6M]  |
|           | <b>b)</b> What is a Cookie? Explain with example.                          | [L2][CO4] | [6M]  |
| <b>10</b> | Discuss in detail about creation of Crystal Report.                        | [L6][CO3] | [12M] |

**UNIT –IV****XML**

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|-----------|---------------------------------------------------------------------------|-----------|--------------|
| <b>1</b>  | <b>a)</b> What is an XML? Explain its advantages.                         | [L1][CO4] | <b>[6M]</b>  |
|           | <b>b)</b> Explain in detail about Reading and Writing XML.                | [L2][CO4] | <b>[6M]</b>  |
| <b>2</b>  | Describe in detail about XML data using XMLReader and XMLWriter           | [L2][CO4] | <b>[12M]</b> |
| <b>3</b>  | <b>a)</b> Why is it necessary to validate XML?                            | [L1][CO4] | <b>[6M]</b>  |
|           | <b>b)</b> Write the steps how to validate XML.                            | [L1][CO4] | <b>[6M]</b>  |
| <b>4</b>  | Discuss about XML DOM Object Model.                                       | [L6][CO4] | <b>[12M]</b> |
| <b>5</b>  | Give brief description about transforming XML Data with XSLT.             | [L3][CO4] | <b>[12M]</b> |
| <b>6</b>  | Explain with example program how to reading XML with the XMLReader Class. | [L5][CO4] | <b>[12M]</b> |
| <b>7</b>  | Explain with example program how to Writing XML with the XMLWriter Class. | [L5][CO4] | <b>[12M]</b> |
| <b>8</b>  | Explain in detail about the XML Data Validation.                          | [L5][CO4] | <b>[12M]</b> |
| <b>9</b>  | Explain in detail about the XML with ADO.NET.                             | [L2][CO4] | <b>[12M]</b> |
| <b>10</b> | What are the different ways for reading XML from a Database?              | [L1][CO4] | <b>[12M]</b> |

**UNIT –V**  
**.NET MOBILE**

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|-----------|---------------------------------------------------------------------------------|-----------------|
| <b>1</b>  | Explain details about the introduction of .Net Mobile with an example.          | [L2][CO5] [12M] |
| <b>2</b>  | Describe in detail about Forms & Emulators with an example.                     | [L2][CO5] [12M] |
| <b>3</b>  | Describe in detail about Lists with an example.                                 | [L2][CO5] [12M] |
| <b>4</b>  | Explain details about the Events with an example.                               | [L5][CO5] [12M] |
| <b>5</b>  | a) Write short notes on Mobile .net images to display on various devices.       | [L1][CO5] [4M]  |
|           | b) List various utilities used in .net Mobile.                                  | [L4][CO5] [8M]  |
| <b>6</b>  | Explain various validations performed for input data.                           | [L5][CO5] [12M] |
| <b>7</b>  | a) Describe in detail about selection in .net Mobile.                           | [L2][CO5] [6M]  |
|           | b) List various user interface controls.                                        | [L4][CO5] [6M]  |
| <b>8</b>  | Discuss various controls used to collect input from the mobile user.            | [L6][CO5] [12M] |
| <b>9</b>  | Explain the following with an example.                                          | [L2][CO5] [12M] |
|           | i) AdRotator Control            ii) Calendar Control    iii) Phone call Control |                 |
| <b>10</b> | Explain the following with an example.                                          | [L2][CO5] [12M] |
|           | i) Drop Down List            ii) Check Boxes            iii) Radio Buttons      |                 |

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