

Unit 1: Overview of Microsoft .NET Framework

Short Questions (1 to 4 Marks)

1. Explain CTS in detail.
2. List the extensions of files available in VB.NET solution
3. What is Class Library?
4. Explain MSIL
5. What is Garbage Collection?
6. What is CLR? What is its use?
7. What is use of Assembly?
8. What is .NET Framework
9. What is extension of Visual Basic Project File & Form's Code File?
10. What is Visual Studio.Net?
11. What is Namespace? What is its importance? Give example
12. What is Event driven Programming?

Long Questions (5 to 10 Marks)

1. Explain CLR & Class Library in detail.
2. Explain .NET Framework in detail
3. Explain CLR Execution Model. How the .NET framework compiles & executes the program?
4. Explain features of VB.NET
5. What is IDE? Explain IDE of VB.NET
6. Explain CLR, CTS & FCL in detail.

Unit 2: Programming in Visual Basic.NET

Short Questions (1 to 4 Marks)

1. Explain Dim, Redim & use of Preserve keyword.
2. Explain Option Strict statement with example
3. Explain INSTR() function with example
4. Explain Option Explicit Statement.
5. Explain importance of With...End With Statement
6. How could we pass default arguments?
7. What is difference between Array & Collection?
8. Explain Constant with example

9. Explain Option Compare statement with example
10. What is Module?
11. Explain Collection.
12. Write down rules for optional arguments.
13. What is use of Val() function?
14. What is use of Switch() function?
15. Is it necessary to declare variables?
16. What is Enumeration? How do we create it? Give example
17. Explain AND & OR operator with example
18. What is default value of Date & Boolean datatype?
19. What is use of MessageBox & Inputbox?
20. What is CType() function?
21. What is the use of Mid() function?
22. What is Modular Coding?
23. What is Module?
24. What is Boxing in VB.NET?

Long Questions (5 to 10 Marks)

1. Explain Argument Passing mechanism of VB.NET. How to pass variable no. of arguments?
2. Explain Date & Time related functions of .NET
3. What is difference between Collection & Array? Explain any two collection in detail.
4. Explain String functions with example.
5. Explain MDI & SDI in detail.
6. What is Function Explain Call By Value & Call By Reference with example.
7. Define Module. Explain with example
8. Explain InputBox & MessageBox in detail
9. Short Note: Procedure & its advantages
10. Short Note: Datatype of VB.NET
11. Explain Nested If & For ..Next with example
12. What is Procedure? How it differs from function? How to pass arguments in it? Explain with example
13. Explain all Option Statement with example
14. Explain Select...Case with example
15. Write about Control Statements.
16. Compare Select...Case with IF...ELSEIF

17. Write a note on Datatype Conversion functions
18. Discuss the concept of Dynamic Array in VB.NET. How to create dynamic array? Explain REDIM & PRESERVE keyword in detail.
19. What is Modular Coding? Explain procedure with example.
20. Explain Conditional Statement in VB.NET
21. What is difference between Collection & Array? Explain any three properties & methods of array

Unit 3: Introduction to Windows Controls

Short Questions (1 to 4 Marks)

1. What is difference between GroupBox & Panel Control?
2. What is significance of Timer Control? Explain with example.
3. Discuss important properties of Progressbar
4. Explain Err object
5. Explain UseMnemonic property of Label
6. What is difference between Enable & Visible property of Controls?
7. Explain any two property of PictureBox.
8. What is difference between Checkbox & Radiobutton?
9. What is Context Menu?
10. What is difference between Scroll & Valuechanged event of scrollbar control?
11. Explain Multiline & wordwrap property of Textbox Control
12. Explain Print Dialog Box
13. How to load an image during runtime in PictureBox?
14. How to add icons in Treeview?
15. How to add Textbox at runtime?
16. Give two property of LinkLabel
17. Which block is always executed in Try block? Explain with example
18. Give any one Form method
19. Give two properties of Listbox which is usual to connect with Database
20. Explain any two dynamic property of Textbox Control
21. Explain dynamic(runtime) property of Listbox Control
22. Differentiate Modal & Mdeless Dialog Box
23. List various Containers(container control) in VB.NET
24. Explain Add() & Insert() method of Listbox.
25. Explain Image property of PictureBox
26. List properties of Timer Control

27. What is Design time & Run time property?
28. Explain Error Provider & Help Provider Controls.

Long Questions (5 to 10 Marks)

1. Explain RichTextbox Control with all properties, methods & events.
2. Explain Treeview Control with all properties, methods & events.
3. What is Modal & Modeless Dialog Boxes? List all dialog boxes available in vb.net. Explain any one of them.
4. Explain all mouse events of VB.NET
5. Explain Exception Handling mechanism of VB.NET. Also explain types of exception OR Short Note: Error Trapping mechanism OR Explain TRY...CATCH...FINALLY block with illustration.
6. Explain all keyboard events of VB.NET
7. Explain ImageList Control with all properties, methods & events.
8. Explain Font DialogBox & Color DialogBox
9. How do we add & remove controls at runtime? Write a code to add & remove Textbox at runtime.
10. Explain SaveFile Dialogbox & OpenFile Dialogbox Controls with all properties, methods & events.
11. Explain NotifyIcon, HelpProvider & ErrorProvider
12. Explain Listbox & Combobox Control with all properties, methods & events.
13. Explain Textbox Control with all properties, methods & events.
14. Explain ListView Control with all properties, methods & events.
15. Explain CheckedListBox Control with all properties, methods & events.
16. Short Note on ToolStrip. How to add a button in the ToolStrip during runtime?
17. Write on Timer Control
18. Write on LinkLabel Control with all properties, methods & events.
19. Explain Toolbar Control with all properties, methods & events.
20. Explain MaskedTextBox Control with all properties, methods & events.
21. Explain TrackBar Control with all properties, methods & events.
22. Explain Menustrip & ContextMenuStrip. How to create SeparatorBar? How to add Image to menu items
23. Explain ScrollBar Control with all properties, methods & events.
24. What is Event? What is Event driven Programming? Explain any two mouse & keyboard events of Form Control
25. Explain ListBox & CheckedListBox Control with all properties, methods & events.

26. Explain ProgressBar & Timer Control with all properties, methods & events.
27. Explain Menu with its properties. Also write steps to design Menu
28. List Common Dialog Control and explain any two dialog Control

Unit 4: Object Oriented Programming

Short Questions (1 to 4 Marks)

1. What is Abstract Base Class? Which keyword is used to create Abstract Base Class?
2. What is use of MyBase & MyClass keyword in VB.NET?
3. How do we create our own property?
4. What is Abstraction?
5. Define Shadowing
6. How to fire an Event? Give its code
7. Define shared variable
8. How to declare a class & event in it?
9. Explain user-defined datatypes.
10. Explain MustInherit keyword with example
11. Define property & Event

Long Questions (5 to 10 Marks)

1. Explain Inheritance in VB.NET. which inheritance is not supported in VB.NET? explain its Solution
2. What is Interface? How it is different from Inheritance? Explain in detail.
3. How can we create Abstract class in VB.NET? explain with example
4. Explain various Access modifiers / Access specifiers
5. Explain Abstraction, Encapsulation & Polymorphism with example
6. Write a note about Classes, objects & constructor
7. Discuss Class modifiers. How to define a Class?
8. Explain Interfaced Polymorphism
9. Explain Overriding
10. Discuss on OOP concepts
11. Discuss on Overridable, Overrides, Mustoverrides & NotOverridable
12. Compare overloading & overriding
13. How can we create Constructor & Destructor in VB.NET Explain with example
14. What is Interface in VB.NET? Explain with example.

Unit 5: Database Access using ADO.NET

Short Questions (1 to 4 Marks)

1. List the functions of Command object in VB.NET. Also explain its use.
2. What is Data Binding?
3. What is difference between Data Reader & Data Adapter?
4. Explain the use of ExecuteNonQuery() ExecuteScalar() & ExecuteReader()
5. Explain Connection object
6. Name the properties of Command object
7. Define Dataset
8. How to open a dataset only to read forward?
9. What is difference between Data Reader & Dataset?
10. What is Disconnected Environment?

Long Questions (5 to 10 Marks)

1. Discuss ADO.NET structure with all its objects OR Explain ADO.NET object model in detail. OR Discuss any two objects of ADO.NET
2. Explain DataGridView Control with all properties, methods & events.
3. Explain Connection object with its properties & methods
4. Explain objects of Dataset, DataRelation & DataTable
5. Write steps to connect with MS Access Database and perform insert, update & delete operation.
6. Explain Parameter collection of command object with example. Also discuss Command object
7. Write about DataAdapter
8. Write about Dataset & give the code to create dataset
9. Write all properties & methods of Parameter class.
10. Discuss on Simple & Complex Data Binding.
11. What is use of Currency Manager object & Binding Context object
12. What is difference between Dataset & DataReader? Explain Data reader with properties, methods & example
13. Explain DataGrid. Write steps to bind DataGrid with database at runtime
14. Explain Dataset & DataProvider. Discuss them in detail.