

CREDIT BASED FOURTH SEMESTER B.C.A. DEGREE EXAMINATION**APRIL 2012****B. C. A.****VISUAL PROGRAMMING USING VB.NET****Time: 3 Hrs****Max. Marks: 120****PART – A****Note: Answer any 15 questions from the following:****15x2=30**

1.
 - a) What is a class library?
 - b) State the difference between an array and a structure.
 - c) Mention the main use of VS.Net IDE.
 - d) Explain the term assembly.
 - e) What is Common Language Runtime?
 - f) Evaluate the output of the expression $30*5/3*3$
 - g) State the differences between a GroupBox control and a Panel control.
 - h) What is the difference between a fixed array and dynamic array?
 - i) State the difference between KeyPress and KeyDown.
 - j) What is the 'get' property called?
 - k) What is an event?
 - l) What is the purpose of the Group Box Control?
 - m) How is a dataset different from a database table?
 - n) What is an exception?
 - o) What do you mean by method overriding?
 - p) Why is the 'finally' block used?
 - q) To bind a control to a dataset, what property of each control needs to be set.
 - r) List the four objects of a managed data provider.

PART – B**Note: Answer any two questions from each unit:****UNIT – I**

2.
 - a) Explain any five user interface elements of VB.Net.
 - b) With respect to an array explain the following:
(i) declare an array (ii) assigning values to an array (iii) resizing an array
 - c) Explain the different types of DO loops available in VB.Net.
3.
 - a) Explain the select case construct with syntax and example.
 - b) Explain any five string functions in VB.Net.

(5+4+6)

- c) Write a program to check whether a character stored in a variable is a vowel or not. **(5+5+5)**
4. a) Explain the steps involved in managed code execution process.
b) Explain any four properties of textbox control.
c) Write a program to find the maximum and minimum element in an array. **(6+4+5)**

UNIT – II

5. a) What are abstract methods? List its characteristics.
b) With suitable interface write a program to calculate the students' Result, given the Roll No., Name and Marks in three subjects.
c) Explain method overloading with the help of an example. **(5+5+5)**
6. a) What is meant by an abstract class? Give its usage with suitable code example.
b) Explain two methods and two properties of a ComboBox.
c) Write a procedures to perform the following operations on ListBox:
(i) Add items (ii) Remove items
(iii) Clear items (iv) Shift items from one Listbox to another
7. a) List and explain the different types of access modifiers.
b) Explain any five features of VB.Net.
c) What is a Dialogue Box? Explain the steps involved in creating a Dialogue Box with the help of an example. **(5+5+5)**

UNIT – III

8. a) Describe the purpose of a data adapter.
b) What is SQL Data Reader? With the help of an example explain how do you retrieve data using this?
c) Enumerate the distinct advantages of ADO.Net. **(5+5+5)**
9. a) How does the try.... catch mechanism handle an exception?
b) Explain the different properties and methods of connection class.
c) Write a procedure to navigate through the records using currency manager.
Assume the STUDB database contains the table 'student' having fields Studid, studname, and grade. **(5+4+6)**
10. a) Explain the importance of data grid control with an example.
b) What is data binding? Explain the two different types of data binding with the related properties.

- c) With the help of an example, explain the concept of custom exception. (5+5+5)

COA 402

Reg. No.

**CREDIT BASED FOURTH SEMESTER B.C.A. DEGREE EXAMINATION
APRIL 2013
B. C. A.**

VISUAL PROGRAMMING USING VB.NET

Time: 3 Hrs

Max. Marks: 120

PART – A

Note: Answer any 15 questions from the following:

15x2=30

1. a) What is Microsoft.NET framework?
- b) Define class Library.
- c) List any four user interface elements of VB.NET.
- d) Which are the different integer data types available in VB.NET.
- e) What is the purpose of 'Preserve' keyword while defining an array.
- f) How do you declare and initialize a variable in VB.NET?
- g) How does a function differ from a procedure?
- h) Define Abstract class. Write the syntax to define an Abstract class.
- i) Why MDI is used?
- j) Write any two differences between radiobutton and checkbox.
- k) What is the purpose of get property?
- l) Write any two features of a constructor.
- m) Why finally block is used?
- n) How a dataset is different from datatable?
- o) List the four objects of managed data provider.
- p) List any two properties and any two methods of Data Adapter object.
- q) What is the purpose of SQL DataReader?
- r) How is dataset created in VB.Net?

PART – B

Note: Answer any two questions from each unit:

UNIT – I

2.
 - a) Explain the different types of loops structures in VB.NET with examples for each.
 - b) Explain any five string functions in VB.NET.
 - c) Briefly explain the architecture of .NET frame work. **(6+5+4)**

3.
 - a) What is common Language Runtime? Explain the benefits of it.
 - b) With respect to an array, explain the following
 - (i) declare an array
 - (ii) assign values to an array
 - (iii) resize an array
 - c) Write a VB.Net program to check whether a character is vowel or not? **(6+5+4)**

4.
 - a) List and explain the advantages of .NET framework.
 - b) Describe the most commonly used Toolbox objects.
 - c) Explain the Select Case construct with Syntax and an example. **(6+5+4)**

UNIT – II

5.
 - a) What is polymorphism?
 - b) Explain the following with an example:
 - (i) Selection Mode Property of a combobox
 - (ii) Contains method o a listbox
 - (iii) Find string property of a listbox
 - (iv) Text Property of a Combobox
 - (v) Multiple property of a textbox
 - c) Explain method overloading with the help of an example. **(5+4+6)**

6.
 - a) What is an interface? Explain Interface Inheritance with an example.
 - b) Differentiate between class and structure.
 - c) Explain the various properties of forms.

7.
 - a) Differentiate between ListBox, ComboBox and TextBox.
 - b) Write a user defined function to calculate factorial of a number. Calculate ncr by using this function.
 - c) What are abstract methods? State the rules associated with their usage.. **(6+5+4)**

UNIT – III

8.
 - a) What is Exception? Explain with the help of an example program to handle user defined exception.
 - b) Explain with a neat diagram and program code how do you navigate between records using currency manager?
 - c) Explain the architecture of ADO.Net? **(6+5+4)**

9.
 - a) What is a SQL DataReader object? Explain the different methods?
 - b) Explain the Throw statement with syntax and example.

- c) Explain the advantages of ADO.NET. (4+6+5)
10. a) What is Data Binding? Differentiate between complex and simple data binding.
b) Explain the constituents of data set class.
c) With a neat diagram explain how do you access data using data adapter and data set. (4+5+6)

COA 402

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**CREDIT BASED FOURTH SEMESTER B.C.A. DEGREE EXAMINATION
APRIL 2014
B.C.A
VISUAL PROGRAMMING USING VB.NET**

Time: 3 Hrs

Max. Marks: 120

PART – A

- 1. Answer any Fifteen questions from the following: 15x2=30**
- What is class library?
 - What are the ways of initializing a one dimensional array?
 - What is an assembly?
 - What is a solution explorer window?
 - What is the purpose of PRESERVE keyword in VB.NET?
 - Name any four date functions.
 - How does MDI form differ from standard form?
 - Differentiate between GroupBox control and Panel control.
 - What is an event?
 - Differentiate between procedure and function.
 - What are the values that can be set for the DropDownStyle property of a ComboBox?

- l. List any four access modifiers.
- m. What is an exception? Give an example.
- n. What is the purpose of DataAdapter?
- o. How is a Dataset different from a database table?
- p. List any four properties used to set for complex binding controls to a data source.
- q. What is the purpose of SqlDataReader?
- r. Define a connection object.

PART – B

Answer any TWO questions from each unit:

UNIT – I

2.
 - a. Explain the different Data types used in VB.NET.
 - b. Briefly explain the importance of CLR.
 - c. Write the rules for naming a variable. **(6+5+4)**

3.
 - a. Explain the user Interface elements of VB.NET.
 - b. Explain the Select case construct with its syntax and example.
 - c. Explain any three string functions in VB.NET. **(6+6+3)**

4.
 - a. Explain the steps involved in managed code execution process.
 - b. Write a program to count the number of vowels in a given string.
 - c. What is a structure? Explain with example how to declare and store data in it. **(6+5+4)**

UNIT – II

5.
 - a. Explain the text manipulation properties of a TextBox.
 - b. What is a DialogBox? Explain how do you set a form as DialogBox?
 - c. What are Abstract methods? Mention its characteristics. **(5+5+5)**

6.
 - a. Explain the MsgBox function with syntax and example.
 - b. Explain the important methods and properties of a Form.
 - c. Explain the concept of Inheritance. **(5+5+5)**

7.
 - a. What is the importance of InputBox? Explain with syntax and example.
 - b. What is a property procedure? What is its significance?
 - c. What is the meaning of method overriding? Explain with an example. **(5+5+5)**

UNIT – III

8.
 - a. Explain the importance of Data grid view control.
 - b. Explain the use of finally block with an example.
 - c. To bind a control to a data set, what property of each control needs to be set? **(5+5+5)**

9.
 - a. Explain with an example, the use of binding context object in a data table.
 - b. Explain the advantages of user defined exception handling mechanism over the pre defined error handling mechanism.

- c. What are managed providers? What is their main functionality? **(5+4+6)**
- 10.** a. Explain the various methods and properties of a Data Adapter.
 b. How does the try.... Catch mechanism handle an exception?
 c. What is Data Binding? Explain the two different types of DataBinding with the related properties. **(5+4+6)**

COA 402

Reg. No.

CREDIT BASED FOURTH SEMESTER B.C.A. DEGREE EXAMINATION

APRIL 2015

B.C.A

VISUAL PROGRAMMING USING VB.NET

Time: 3 Hrs

Max. Marks: 120

PART – A

1. Answer any Fifteen questions from the following: 15×2=30

- a. What are the default values set for the different data types?
- b. What are namespaces?
- c. What is an assembly?
- d. List two differences between a CheckBox control and a RadioButton control.
- e. How does an MDI form differ from a standard form?
- f. Explain the use of CType with an example.
- g. Differentiate between fixed array and a dynamic array.
- h. What is the significance of OptionExplicit statement?
- i. Evaluate the output of the Expression $30 * 5 / 3 * 3 + (8 \text{ mod } 3)$.
- j. What is the difference between KeyPress and KeyDown?
- k. What is the difference between design time and runtime?
- l. What is the use of WindowState property of a form?
- m. How do you declare an object? Give an example.
- n. Differentiate between object overloading and object overriding.
- o. Differentiate between data reader and data adapter.

8. a. How does the try-catch mechanism handle an exception? Give an example.
b. Enumerate the distinct advantages of ADO.Net.
c. Explain the different properties and methods of the connection class. **(5+5+5)**

9. a. Which are the different ways of navigation in Database? Explain with an example.
b. Explain the architecture of ADO.Net.
c. What is a dataset object? How do you create a dataset? Explain with an example. **(5+5+5)**

10. a. What is data binding? Explain the 2 different types of data binding with the related properties.
b. What is data reader? With example explain the different methods associated with it.
c. Explain the methods of data adapter class with an example. **(6+5+4)**

**B.C.A****VISUAL PROGRAMMING USING VB.NET**

Time: 3 Hrs

Max. Marks: 100

PART – A

1. Answer any 11 questions from the following: 11x2=22
- a. What is a form?
 - b. What are namespaces?
 - c. Differentiate between fixed Array and dynamic Array.
 - d. What is the significance of 'properties window'?
 - e. List any conversion functions.
 - f. What is the use of an intellisense feature?
 - g. What is the difference between RadioButton control and CheckBox control?
 - h. Mention the four layout Mdi methods of MDI child windows.
 - i. Differentiate between MsgBox and InputBox functions.
 - j. What is the difference between Name and Text properties of a control?
 - k. What is the purpose of 'set' property?
 - l. What is the use of finally block?
 - m. List the four objects of a managed data provider.

PART – B

Answer any TWO full Questions from each unit:

UNIT – I

2. a. Explain any three IDE components of VB.Net.
 b. Explain the different forms of Do-Loop in VB.NET.
 c. Explain how variables and arrays are used in VB.NET. (5+5+3)
3. a. Briefly explain the architecture of .NET frame work.
 b. Explain the different decision structure with syntax and example.
 c. What is a user –defined data type? Explain. (5+5+3)
4. a. Explain the features of VB,NET language.
 b. Explain the for...next statement in VB.NET with syntax and example.
 c. Write a program to count the number of vowels in an entered string. (4+5+4)

UNIT – II

5. a. Write a procedure to perform the following operations on list box.
 i) AddItems ii) RemoveItems
 iii) ClearItems iv) Shift items from one list box to another
 b. Explain the different types of access modifiers.
 c. How do you create MDI form? What are its advantages? (4+5+4)

6. a. Explain the properties and methods of textbox control.
b. Explain the usage of constructor with the help of an example.
c. Differentiate between passing parameters by Reference and by value. (5+4+4)
7. a. Explain the 2 properties and 2 methods of list box and combo box controls; which are common to these two controls.
b. Differentiate between general procedure and event handler with the help of an example.
c. What do you mean by abstract Class? Give its usage with a suitable code example. (4+4+5)

UNIT – III

8. a. Write the distinct advantages of ADO.NET.
b. With an example explain the purpose of 'throw' statement.
c. What is SqlDataReader? With the help of an example explain how to retrieve data using this. (5+4+4)
9. a. Explain the Architecture of ADO.NET.
b. Write a note on DataAdapter.
c. How does the trycatch mechanism handles an exception? (5+4+4)
10. a. Explain the different properties and methods of connection object.
b. Explain the Constituents of the dataset class with the help of a diagram.
c. With the help of an example explain the concept of custom exception. (5+4+4)
