



A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE
(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



Bachelor of Computer Applications (Semester -5) Internal Examination - 2025
US05MABCA02 : VISUAL PROGRAMMING

Date: 23/09/2025, Tuesday

Time: 10:45am TO 12:15pm

Total marks :30

Q:1 Multiple Choice Questions:

[06]

1. Which component of .NET is responsible for converting MSIL to native code at runtime?
A) CLR B) JIT Compiler
C) Assembly Loader D) Metadata Reader
2. What is type casting?
A) Copying a variable B) Converting one data type to another
C) Removing a variable D) Comparing two data types
3. Which loop is used to iterate through a collection?
A) Do B) For
C) While D) For Each
4. Which control is used to display non-editable text on a form?
A) TextBox B) Label
C) ListBox D) GroupBox
5. Which keyword is used to include namespaces in VB.NET?
A) Include B) Use
C) Imports D) Namespace
6. Which object fills a DataSet with data from the database?
A) SqlCommand B) DataReader
C) SqlDataAdapter D) SqlConnection

Q:2 Explain the major components of the .NET architecture.

[06]

OR

Explain the different types of operators available in VB.NET with examples of each category.

Q:3 Describe the life cycle of a Windows Form in VB.NET. Also Explain Windows Forms with basic properties, methods and events.

[06]

OR

Explain looping statements in VB.NET for Do While and While...Wend. Also Discuss the use of Exit and Continue statements inside loops.

Q:4 Describe the functionalities and differences between ListBox, CheckedListBox, and ComboBox controls.

[06]

OR

Explain how the ErrorProvider control is used to validate user input in a Windows Forms application. Explain with example.

Q:5 Define ADO.NET. Also explain the connected architecture of ADO.NET.

[06]

OR

Explain DataGridView control in VB.NET. How is it different from a ListBox or ComboBox in terms of data handling?



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Bachelor of Computer Applications (Semester 5) Quiz - 2025
US05MABCA02 : VISUAL PROGRAMMING

Date: 23/09/2025 Day: Tuesday

Time: Maximum 20 minutes

Total marks :15

Q-1 Fill in the blanks with appropriate.

[08]

- (i) MSIL stands for _____.
- (ii) _____ keyword is used to declare a variable in VB.NET.
- (iii) _____ property sets the title of a Windows Form.
- (iv) _____ property is set to make a form an MDI container.
- (v) _____ control is used for graphical image display in VB.NET.
- (vi) _____ control is used to group related controls visually.
- (vii) ADO.NET stand for _____.
- (viii) _____ method is used to open a database connection in ADO.NET?



Q-2 Whether the following statement is true or false. Write your answer in the box

[07]

- | | | |
|--|---|---|
| (i) Managing memory and execution is the purpose of the CLR in .NET. | [|] |
| (ii) A database system is the .NET Framework Class Library. | [|] |
| (iii) Break statement is used to skip the current iteration in a loop. | [|] |
| (iv) Sub keyword is used to define a procedure in VB.NET. | [|] |
| (v) ScrollPanel control provides vertical scrolling. | [|] |
| (vi) ADO.NET is primarily used for Database interaction. | [|] |
| (vii) For insert, update, and delete SQL commands, ExecuteReader method is used. | [|] |