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No. of Printed Pages: 02

[26]

SARDAR PATEL UNIVERSITY
External Examination – October 2025
BCA (Semester-V) – (NEP 2020)
[US05MABCA02] : Visual Programming

Date: 06/10/2025 (Monday)

Time: 10.00am to 12.30pm

Total Marks: 50

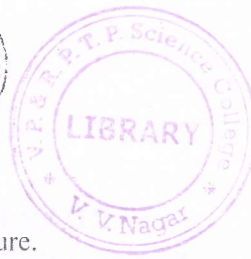
Note: Figure indicates at right is maximum marks for question.

Q -1 Select an appropriate option for the following statements.

[10]

1. Which of the following is NOT a .NET language?
[a] VB.NET [b] C#
[c] Python [d] F#
2. What is the .NET Framework Class Library?
[a] A set of hardware APIs [b] A collection of reusable classes and interfaces
[c] A .NET plugin [d] A database system
3. Which operator is used for concatenating strings in VB.NET?
[a] & [b] +
[c] % [d] &&
4. Which loop is best when the number of iterations is known?
[a] Do..loop [b] While
[c] For [d] With
5. Which keyword is used to call a procedure?
[a] Call [b] Use
[c] Invoke [d] Run
6. Which control is used to accept text input from the user?
[a] Label [b] Button
[c] TextBox [d] GroupBox
7. Which control is used to allow users to select a date?
[a] TimePicker [b] Calander
[c] DateTimePicker [d] Timer
8. Which dialog box is used to choose fonts and styles?
[a] FontDialog [b] StyleDialog
[c] FontChooser [d] RichTextEditor
9. In disconnected architecture, data is stored in:
[a] SqlDataReader [b] DataStream
[c] DataSet [d] SqlCommand
10. Which object represents a connection to a SQL Server database?
[a] SqlCommand [b] SqlAdapter
[c] SqlConnection [d] SqlDataReader





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

[10]

OR

Q:2 Explain the different types of operators available in VB.NET with examples of each category.

[10]

Q:3 Compare and contrast SDI (Single Document Interface) and MDI (Multiple Document Interface) applications. Explain how to create and manage MDI parent and child forms in VB.NET.

[10]

OR

Q:3 Explain the syntax and usage of the If...Then...Else statement in VB.NET with an example.

How is Select Case different from multiple If...Elseif statements? Give a suitable example. [10]

Q:4 What is the purpose of advanced controls like LinkLabel, RichTextBox, and TreeView in desktop applications?

[10]

OR

Q:4 Explain the concept of exception handling in Windows Forms applications with specific reference to structured exception handling using try...catch...finally.

[10]

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

[10]

OR

Q:5 What are the advantages of using reports in VB.NET applications? Write a step-by-step process to design a printable report using Microsoft Report Viewer in VB.NET.

[10]

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