



Lambal

Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – November 2024
V Semester

Class : III UG
Major : B.Com CA

Time: 3 Hours
Max. Marks: 100

21BCCC17 Software Development with Visual Basic.NET

Course Outcomes:

- CO1: Define and construct the optimal code for each module.
- CO2: Provide an insight to design a user interface controls.
- CO3: Develop a relationship with database.
- CO4: Acquire the knowledge to handle the errors.
- CO5: Display the outcome through front end application

Part A
Choose the Correct Answer

10 x 1 = 10

1. Which of the following is a part of the VB.Net Framework? CO1 K1
 - a. Common Language Runtime (CLR)
 - b. Java Virtual Machine (JVM)
 - c. Python Interpreter
 - d. Swift Compiler
2. Which type of application is typically created using the Console Application template in VB.NET? CO1 K2
 - a. Web Application
 - b. Desktop Application with UI
 - c. Command-line Application
 - d. Mobile Application
3. Which of the following is used to make decisions in VB.NET? CO2 K1
 - a. If...Else
 - b. For...Next
 - c. Loop...Unti
 - d. While...Wend
4. Which loop in VB.NET is best suited for a known number of iterations? CO2 K2
 - a. For...Next
 - b. Do...While
 - c. While...Wend
 - d. Loop...Until
5. What type of forms does MDI refer to in VB.NET? CO3 K1
 - a. Multi-Dimensional Interface
 - b. Multiple Data Interface
 - c. Multi-Document Interface
 - d. Managed Data Interface
6. Which event is commonly used to detect a button click in VB.NET? CO3 K2
 - a. MouseEnter
 - b. KeyPress
 - c. Click
 - d. Load
7. What keyword is used in VB.NET to throw an exception? CO4 K1
 - a. Throw
 - b. Raise
 - c. Catch
 - d. On Error
8. Which statement is used to handle exceptions in VB.NET? CO4 K2
 - a. If...Else
 - b. Try...Catch
 - c. Do...While
 - d. Switch...Case
9. Which component is used to access data from databases in VB.NET? CO5 K1
 - a. ADO.NET
 - b. HTML
 - c. CSS
 - d. XML
10. What does Data Adapter do in ADO.NET? CO5 K2
 - a. Manages connections between the application and database.
 - b. Displays data in the console.
 - c. Filters data in a dataset
 - d. Connects DataGrid to the database.

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Describe the structure and components of the VB.NET environment. CO1 K3
(or)
- 11.b. Discuss the various data types available in VB.NET. How are variables declared, and what is the scope of variables? CO1 K4
- 12.a. Explain the use of If...Else and Select Case statements in VB.NET with examples. CO2 K3
(or)
- 12.b. Discuss the different types of loop statements in VB.NET CO2 K 4
- 13.a. Discuss the properties and methods of common controls like TextBoxes, Buttons, and Labels with examples. CO3 K4
(or)
- 13.b. Explain the difference between SDI (Single Document Interface) and MDI (Multiple Document Interface) forms in VB.NET CO3 K3
- 14.a. Explain the concept of exception handling in VB.NET. How do Try...Catch...Finally blocks work, and why are they important in robust application development? CO4 K3
(or)
- 14.b. Discuss the differences between raising and throwing exceptions in VB.NET CO4 K4
- 15.a. Discuss the role of ADO.NET in data access within VB.NET applications. CO5 K4
(or)
- 15.b. Explain the steps involved in creating a data connection using OLEDB and SQLDB in VB.NET CO5 K3

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Describe the VB.NET Integrated Development Environment (IDE) and its key components CO1 K3
(or)
- 16.b. Examine the various data types, operators, and variable scope in VB.NET. CO1 K3
- 17.a. Compare and contrast different decision-making statements in VB.NET. CO2 K3
(or)
- 17.b. Explain the various loop structures available in VB.NET, including Do...Loop, For...Next, and While loops. CO2 K3
- 18.a. Discuss the use of common controls such as TextBoxes, Buttons, ListBoxes, and ComboBoxes, including their properties, methods, and events. CO3 K4
(or)
- 18.b. Analyze the event-driven programming model in VB.NET through practical examples. CO3 K3
- 19.a. Explain the concepts of creating and using classes and objects in VB.NET. CO4 K3
(or)
- 19.b. Describe the debugging and error-handling mechanisms in VB.NET. CO4 K4
- 20.a. Explain the ADO.NET architecture and its role in data access within VB.NET applications. CO5 K3
(or)
- 20.b. Analyze the use of Crystal Report Viewer in VB.NET for generating reports. CO5 K3
