



Hambal

## 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 (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Arrear Examination – November 2025

IV Semester

Batch: 2023

Major : Computer Applications

Time: 3 Hours

Max. Marks: 100

### 23BCAC08 Programming in .NET

#### Course Outcomes:

- CO 1. Knowledge of major elements of the .NET framework.
- CO 2. Ability to analyse the basic structure of a VB.NET application.
- CO 3. Programming skills using VB on .NET.
- CO 4. Design and develop Web based applications on .NET.
- CO 5. Capable of integrating webpages using ADO.NET

#### Part A

10 x 1 = 10

#### Choose the Correct Answer

1. The file extension of project in VB.NET is CO1 K2  
a. .vbp                      b. .vb                      c. .ext                      d. .net
2. This is not a main component of the Visual Studio IDE CO2 K1  
a. Start Menu              b. Tool Box              c. Solution Explorer              d. Designer Window
3. The keyword used to declare a variable in VB.NET is CO2 K1  
a. Var                      b. Variant                      c. Declare                      d. Dim
4. The default access modifier for user defined procedure is CO3 K2  
a. ByRef                      b. Byval                      c. Default                      d. Friend
5. Pick a valid statement about the name and text property CO3 K3  
a. Text property changes to match any changes in the name property  
b. Both are the same when the control is first created  
c. They are never the same unless the programmer changes  
d. Name property changes to match any changes in the text property
6. Which validation control used to determine the data entered in the TextBoxes are same? CO3 K2  
a. ValidationSummary                      b. CompareValidator  
c. RequiredFieldValidator                      d. None of the above.
7. What does the 'ASP' in ASP.NET stand for? CO3 K1  
a. Application Service Pages                      b. Active Server Pages  
c. Application Server Pages                      d. Active Service Pages
8. ASP.NET is CO4 K1  
a. Client side technologies                      b. Server side technologies  
c. Both A & B                      d. None of the above
9. By Default ASP.Net SessionID is stored in CO4 K2  
a. Application                      b. Session                      c. Cookies                      d. Viewstate
10. What is the fully qualified name of the base class of all server controls? CO5 K3  
a. System.Web.UI.control                      b. System.Web.UI  
c. All of the above

**Part B**  
**Answer ALL questions**  
**Each answer should not exceed 400 words or two pages**

**5 x 6 = 30**

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|---|--------|
| 11. a. Describe the Architecture of .NET Framework.                                 | C01 K2 |
| (OR)  |        |
| 11. b. Demonstrate event driven programming with an example.                        | C01 K3 |
| 12. a. Give the syntax of Procedures and functions in VB.NET.                       | C02 K2 |
| (OR)  |        |
| 12. b. Write about ByVal and ByRef keywords with an example.                        | C02 K3 |
| 13. a. Write about any three Windows Common controls with an example.               | C03 K2 |
| (OR)  |        |
| 13. b. Explain about the usage of Input Box and MsgBox with its syntax and example. | C03 K1 |
| 14. a. Explain the Exception Handling techniques in .NET framework with example.    | C04 K2 |
| (OR)  |        |
| 14. b. Write about Cookies in detail.   | C04 K3 |
| 15. b. Explain about Grid view and Tree view control.                               | C05 K1 |
| (OR)  |        |
| 15. a. Explain the working of XML in ASP.NET.                                       | C05 K2 |

**Part C**  
**Answer ALL questions**  
**Each answer should not exceed 800 words or four pages**

**5 x 12 = 60**

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|---|--------|
| 16. a. Write a VB.NET program to calculate total, average and grade of a student.         | C01 K2 |
| (OR)  |        |
| 16. b. Describe in detail about the Visual Studio.NET IDE.                                | C01 K1 |
| 17. a. Explain the usage of various control statements with an example.                   | C02 K1 |
| (OR)  |        |
| 17. b. List and explain any six string functions with syntax and suitable example.        | C02 K3 |
| 18. a. i) List and explain the Forms Properties, Methods and Events.                      | C03 K2 |
| ii) Design an application using forms to add numbers and display the result in a textbox. |        |
| (OR)  |        |
| 18. b. Describe Common dialog controls in detail.   | C03 K2 |
| 19. a. Explain the various Validation controls with example.                              | C04 K1 |
| (OR)  |        |
| 19. b. Explain the steps to design a webpage using windows web controls in ASP.NET.       | C04 K2 |
| 20. a. Illustrate the connection architecture of ADO.NET.                                 | C05 K2 |
| (OR)  |        |
| 20. b. Create a simple employee web application using ADO.NET.                            | C05 K3 |

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