



*Hombally*

**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 Examination – May 2025**  
**IV Semester**

**Class : II UG**  
**Major : Computer Applications**

**Time: 3 Hours**  
**Max. Marks: 100**

**23BCAC08 Programming in .NET**

**Course Outcomes:**

- CO1:** Knowledge of major elements of the .NET framework.  
**CO2:** Ability to analyze the basic structure of a VB.NET application.  
**CO3:** Programming skills using event handling in VB.NET.  
**CO4:** Design and develop Web based applications using ASP.NET.  
**CO5:** Capable of integrating applications using ADO.NET.

**Part A**

**10 x 1 = 10**

**Choose the Correct Answer**

1. Which of the following is NOT a characteristic of the .NET Framework? CO1 K1
  - a. Language Interoperability
  - b. Automatic Memory Management
  - c. Manual Garbage Collection
  - d. Platform Dependency
2. Which component of the .NET Framework translates MSIL (Microsoft Intermediate Language) into native code at runtime? CO1 K2
  - a. CLR (Common Language Runtime)
  - b. JIT (Just-In-Time) Compiler
  - c. FCL (Framework Class Library)
  - d. GAC (Global Assembly Cache)
3. Which keyword is used to pass arguments by reference in VB.NET? CO2 K1
  - a. By Val
  - b. By Ref
  - c. Static
  - d. Final
4. What is the purpose of the Try...Catch block in VB.NET? CO2 K2
  - a. To handle exceptions
  - b. To declare variables
  - c. To create loops
  - d. To define functions
5. Which of the following is NOT a Windows common control in VB.NET? CO3 K1
  - a. Text Box
  - b. Label
  - c. Tree View
  - d. JTable
6. In a Multiple Document Interface (MDI) application, what is the purpose of the MDI parent form? CO3 K2
  - a. To contain multiple child forms within a single parent form
  - b. To handle only database connections
  - c. To work as a standalone form
  - d. To store all application settings
7. Which ASP.NET control is used to validate user input? CO4 K1
  - a. Text Box
  - b. Validator
  - c. Required Field Validator
  - d. Label
8. Which of the following is NOT a state management technique in ASP.NET? CO4 K2
  - a. View State
  - b. Session State
  - c. Cookie
  - d. BIOS Memory
9. Which ADO.NET object is used to retrieve data in a forward-only, read-only manner? CO5 K1
  - a. Data Set
  - b. Data Adapter
  - c. Data Reader
  - d. Sql Command
10. Which ADO.NET control is used to display data in tabular form with sorting and paging support? CO5 K2
  - a. List View
  - b. Grid View
  - c. Label
  - d. Menu Control

**Part B**

**5 x 6 = 30**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 11.a. What do you mean by Microsoft .NET Framework? Explain its features. CO1 K1  
(or)  
11.b. Write short notes on Event Driven Programming. CO1 K2
12. a. Explain the overview of visual studio .NET. CO2 K2  
(or)  
12.b. How to represent By val and By ref Keywords? Discuss. CO2 K3
- 13.a. Explain about Window Forms with suitable example. CO3 K1  
(or)  
13.b. Discuss in details about the types of events. CO3 K2
- 14.a. Explain briefly about the features of ASP.NET. CO4 K2  
(or)  
14.b. How to implement a tree view control method? CO4 K3
- 15.a. Discuss briefly about characteristics of ADO.NET. CO5 K1  
(or)  
15.b. Write short notes on object data source. CO5 K2

**Part C**

**5 x 12 = 60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

16. a. Explain about Managed Components in .NET. CO1 K1  
(or)  
16.b. Detail discussion about the Building .NET assemblies. CO1 K2
17. a. Summarize any one control statements in visual studio.NET. CO2 K1  
(or)  
17.b. Justify the handling errors and exception in detail. CO2 K2
18. a. Explain about the Multiple Document Interface (MDI) Applications in detail. CO3 K1  
(or)  
18.b. Discuss briefly about the collecting user input. CO3 K3
19. a. Write down the program using validation control, rich control, calendar control, AdRotator control in ASP.NET. CO4 K2  
(or)  
19.b. Narrate the data list control with suitable example in detail. CO4 K3
20. a. Briefly explain the data source controls in detail. CO5 K1  
(or)  
20.b. Illustrate the design of working in XML. CO5 K3

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