



Gambella

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

Continuous Internal Assessment Test I – February 2026

IV Semester

Class : II UG

Major : Computer Applications

Time: 2 hours

Maximum Marks: 60

23BCAC08 Programming in .NET

Course Outcomes:

At the end of the course, students will:

1. Knowledge of major elements of the .NET framework.
2. Ability to analyze the basic structure of a VB.NET application.
3. Programming skills using event handling in VB.NET.
4. Design and develop Web based applications using ASP.NET.
5. Capable of integrating applications using ADO.NET.

Part - A

6 x 1 = 6

Choose the Correct Answer

1. What is the role of JIT compiler
a. Converts source code to byte code b. Converts IL code to machine code
c. Converts machine code to IL d. Executes SQL queries
CO1 K1
2. Which language is NOT supported by the .NET Framework?
a. C# b. VB.NET c. Java d. F#
CO1 K1
3. What is the index of the first element in an array?
a. 0 b. 1 c. -1 d. Null
CO2 K1
4. Which keyword allows a function to accept variable number of arguments?
a. optional b. ByRef c. ParamArray d. Params
CO2 K1
5. Which property is used to set the title of a form?
a. Name b. Caption c. Text d. Header
CO3 K1
6. Which class is the base class for all Windows Forms?
a. Control b. Container c. Form d. Window
CO3 K1

Part - B

3 x 6 = 18

Answer ALL Questions

Each answer should not exceed 400 words or two pages

7. a. Explain the primary characteristics of the .NET Framework in brief.
(or)
CO1 K2
7. b. Discuss the role of Microsoft Intermediate Language (MSIL) in the .NET process.
CO1 K2
8. a. How to create an Arrays? Explain with an example.
(or)
CO2 K3
8. b. Explain briefly on the mechanism of Exception Handling in VB.NET. Provide a code example using Try...Catch...Finally blocks.
CO2 K2
9. a. Elucidate on the memory implications of passing a large object ByVal versus ByRef in the .NET environment.
(or)
CO2 K2
9. b. Write a vb.net program to design a calculator using form.
CO3 K3

Part - C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. a. Discuss in detail about Net Framework with neat diagram
(or)
CO1 K2
10. b. List and describe the components of an event-driven programming.
CO1 K1
11. a. Define Control Statements and explain its types with example.
(or)
CO2 K2
11. b. List and explain the different categories of operators available in VB.NET with example.
CO2 K2
12. a. Discuss in detail about Windows common controls with example.
(or)
CO3 K2