

(FOR THE CANDIDATES ADMITTED

SUBJECT CODE **23 UEC 411**

DURING THE ACADEMIC YEAR 2023-24 ONLY)

REG.NO.

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI**

**END-OF-SEMESTER EXAMINATIONS : MAY – 2025**

**B.Com.-E.COMMERCE**

**MAXIMUM MARKS: 75**

**IV SEMESTER**

**TIME : 3 HOURS**

**PART – III**

**SOFTWARE DEVELOPMENT WITH VISUAL BASIC .NET**

**SECTION – A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**(K1)**

1. \_\_\_\_\_ window in VB.NET is used to modify the attributes of forms and controls.
  - a) Solution Explorer
  - b) Properties Window
  - c) Toolbox
  - d) Output Window
2. Which property of the TextBox control is used to set or retrieve its text?
  - a) Caption
  - b) Content
  - c) Text
  - d) Value
3. Event procedures in Visual Basic are triggered by \_\_\_\_\_.
  - a) User actions, such as clicking a button or moving the mouse.
  - b) Compiler errors.
  - c) Debugging the application.
  - d) Changing properties at design time.
4. In VB.NET, which keyword is used to declare a variable?
  - a) Set
  - b) Dim
  - c) Var
  - d) Declare
5. ADO.NET is primarily used for:
  - a) Graphics rendering in .NET applications.
  - b) Database connectivity in .NET applications.
  - c) Designing UI elements.
  - d) Debugging .NET code.

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

**(K2)**

6. What is the purpose of the “Auto Hide” feature in VB.NET?
7. How can you dynamically change the image in a Picture Box control during runtime?
8. Write an event handles clicks for multiple buttons in a control array?
9. Mention the purpose of a IsMdiContainer property in a form.
10. What does the Execute Non Query() method return?

**SECTION – B**

**(5 X 5 = 25 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.**

**(K3)**

11. a) Describe the steps required to create and run your first application in Visual Basic .NET.

**(OR)**

- b) Illustrate the Solution Explorer assist in managing a VB.NET project.

**(CONTD .... 2)**

12. a) Compare the usage of a List Box Control and a Combo Box Control in a VB.NET form.  
(OR)  
b) How can you use a Timer Control to create a simple countdown in a VB.NET application?
13. a) Identify the various properties of Form.  
(OR)  
b) Explain how does a For Next loop work in Visual Basic? Provide an example.
14. a) Outline the primary data types available in Visual Basic .NET.  
b) Write a code snippet that calculates the square root of a number using a mathematical function in Visual Basic .NET.
15. a) How does a DataSet work in ADO.NET, and how is it different from a DataReader?  
(OR)  
b) Write an advantages of using ExecuteScalar over ExecuteReader when retrieving a single value from a database in ADO.NET.

**SECTION – C****(5 X 8 = 40 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.**

**(K4 (Or) K5)**

16. a) Evaluate the benefits and challenges of using VB.NET's Integrated Development Environment (IDE) for application development  
(OR)  
b) Critique the process of writing and executing an event procedure in VB.NET for complex applications
17. a) Assess the effectiveness of using the GroupBox Control to organize other controls like Radio Buttons and Check Boxes in a VB.NET form.  
(OR)  
b) Examine the advantages of using a TrackBar Control over a NumericUpDown Control for adjusting values in VB.NET.
18. a) Write the various classifications of properties in VB.NET.  
(OR)  
b) Develop a VB .NET program to reverse the given set of numbers using windows application
19. a) Write a VB.NET application to implement the text editor using Menu control  
(OR)  
b) Explain the use of OpenFileDialog and SaveFileDialog in Visual Basic .NET.
20. a) Describe how to use a DataAdapter to fill a DataSet and explain its role in data retrieval in ADO.NET.  
(OR)  
b) Develop a VB.NET program to store and delete the student information using database connectivity.

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