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**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 : Computer Applications**

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

**21BCAC23 Programming in .NET**

**Course Outcomes:**

- CO1. Knowledge of major elements of the .NET framework.
- CO2. Ability to analyse the basic structure of a VB.NET application.
- CO3. Programming skills using VB on .NET.
- CO4. Design and develop Web based applications on .NET.
- CO5. Capable of integrating webpages using ADO.NET

**Part A**  
**Choose the Correct Answer**

**10 x 1 = 10**

1. Which company developed the .NET software? CO1 K1  
a. Apple                      b. IBM                      c. Microsoft                      d. Google
2. A variable which is declared inside a method is called a \_\_\_\_\_ variable CO1 K2  
a. Local                      b. Static                      c. Serial                      d. Private
3. What does IDE stand for? CO2 K1  
a. Integrated Development Environment                      b. Integrated Design Environment  
c. Interior Development Environment                      d. Interior Design Environment
4. Which is not a main component of the Visual Studio IDE? CO2 K2  
a. Solution Explorer                      b. Tool Box  
c. Start Menu                      d. Designer Window
5. The CancelButton property belongs to which object? CO3 K3  
a. Button                      b. Form                      c. Label                      d. TextBox
6. Which selection process is an example of multiple branches from a single expression? CO3 K2  
a. If...TheY                      b. Select Case                      c. Do...Loop                      d. For...Next
7. ByDefault ASP.Net SessionID is stored in \_\_\_\_\_ CO4 K2  
a. Application                      b. Session                      c. Cookies                      d. ViewState
8. What is the file extension of web service in ASP.NET? CO4 K1  
a. .ascx                      b. .asmx                      c. .aspx                      d. .docx
9. \_\_\_\_\_ object is used to fill a DataSet/DataTable with query results in ADO.net. CO5 K2  
a. DataReader                      b. Dataset                      c. DataAdapter                      d. DataTables
10. If you are using the DataSet and you have to display the data in sorted order what will you do? CO5 K1  
a. Use Sort method of DataTable                      b. Use Sort method of DataSet  
c. Use DataView object with each sort                      d. Use data paging and sort the data

**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. Examine the assemblies in .NET framework.                          | CO1 K1 |
| (or)   |        |
| 11.b. Describe the use of event driven programming.                      | CO1 K2 |
| 12.a. Illustrate the steps to declare a variable in VB.NET with example. | CO2 K3 |
| (or)   |        |
| 12.b. Distinguish between the procedures and functions.                  | CO2 K2 |
| 13.a. Explain the properties of input box control.                       | CO3 K3 |
| (or)   |        |
| 13.b. Summarize the method of Multiple Document Interface.               | CO3 K4 |
| 14.a. Evaluate the different types of common web controls.               | CO4 K5 |
| (or)   |        |
| 14.b. Point out the advantages of FormView control.                      | CO4 K4 |
| 15.a. Appraise the method of SqlDataSource.                              | CO5 K5 |
| (or)   |        |
| 15.b. Express the use of details view and form view control.             | CO5 K6 |

**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. Enumerate the general architecture of .NET framework.           | CO1 K1 |
| (or)  |        |
| 16.b. Demonstrate the various components of .NET framework.           | CO1 K2 |
| 17.a. Discover the different types of data types available in VB.NET. | CO2 K3 |
| (or)  |        |
| 17.b. Estimate the syntax and example of select case statement.       | CO2 K2 |
| 18.a. Examine the purpose of common dialog controls with example.     | CO3 K3 |
| (or)  |        |
| 18.b. Generalize the exception handling mechanism used in VB.NET.     | CO3 K4 |
| 19.a. Assess the implementation of calendar control with example.     | CO4 K5 |
| (or)  |        |
| 19.b. Discriminate the AdRotator control and navigation controls.     | CO4 K5 |
| 20.a. Discuss on repeater and data list control with example.         | CO5 K4 |
| (or)  |        |
| 20.b. Evaluate the method of dataReader and dataAdapter control.      | CO5 K6 |

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