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Sr. No 311504

December 2023  
BCA-V SEMESTER  
VB.NET (BCA-17-304)

Time: 3 Hours

Max. Marks:75

**Instructions:**

1. It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.
2. Answer any four questions from Part -B in detail.
3. Different sub-parts of a question are to be attempted adjacent to each other.

**PART -A**

- Q1 (a) List out any four design goals of .Net Framework. (1.5)  
(b) Distinguish between Value type and Reference Type. (1.5)  
(c) How a Link Label control is different from a Label Control. (1.5)  
(d) What are the three major components of Event Driven Programming (1.5)  
(e) What is the purpose of Option Explicit and Option Strict. (1.5)  
(f) What is the advantage of using Preserve Keyword. (1.5)  
(g) Specify the sequence in which constructors and destructors of Base class and (1.5)  
Child class are called.  
(h) What are Context Menus? (1.5)  
(i) Draw the Object model diagram of a Data Table. (1.5)  
(j) What is RowState property? List its different values. (1.5)

**PART -B**

- Q2 (a) Why CLR is called heart of .Net Framework? (5)  
(b) What are assemblies? Why they are used? Also explain the contents of an (5)  
assembly.  
(c) Which is the base class of all basic data types used in .Net, explain in detail. (5)
- Q3 (a) What is a Form? List out its properties and methods. Also Write a Program in (10)  
VB.Net to store weekdays in a combo-box and display the selected weekday in the  
textbox.  
(b) What is a template? Explain different project templates provided by .Net IDE. (5)
- Q4 (a) How Garbage Collection is done in VB.Net. (5)  
(b) Differentiate between a Class and a Structure. Write a Program in VB.Net to (10)  
demonstrate the use of methods of ArrayList Class.
- Q5 (a) Write a Program in VB.Net to create Menu Item Dialog. The submenus in Dialog (10)  
Menu are Font and Color. As the user clicks the Font submenu , Font Dialog  
Box should open and the font of the textbox should change as per the  
selections made in the Font Dialog Box. Similarly on clicking Color Submenu, a

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color dialog box should open and the fore-color of the text in textbox should change as per the selections done in color dialog box by the user. Also create the Shortcut keys for both submenu items.

- (b) Explain following keywords used in VB.Net : MustInherit, NotInheritable , (5)  
Overridable, MustOverride and Overrides.

Q6 (a) Differentiate between ADO and ADO.Net. Write a program in VB.Net to (10)  
Navigate through records in VB.Net

- (b) What is Filtering of Records? How it is done? (5)

Q7 Write short note on any three (15)

- (a) CLS and CTS
- (b) Message Box and InputBox
- (c) Data Adapter and Data Reader
- (d) Data Relation

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