

Bachelor of Science (B.Sc.) (Part - III) Sixth Semester  
**B.Sc. 4514 - Computer Science Paper-II Elective-I: (VB.Net)**

P. Pages : 2

Time : Three Hours



**GUG/W/18/1341**

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagrams wherever necessary.
  3. Assume suitable data wherever necessary.
  4. Avoid to write vague answers.

**1.** Either:

- |     |                                      |   |
|-----|--------------------------------------|---|
| a)  | Write down the functionality of CLR. | 5 |
| b)  | Write a note on:                     | 5 |
| i)  | MSIL                                 |   |
| ii) | Interoperability                     |   |

**OR**

- |    |  |   |
|----|--|---|
| c) | Explain Architecture of GC.              | 5 |
| d) | Explain Platform Independency in detail. | 5 |

**2.** Either:

- |    |   |   |
|----|---|---|
| a) | Describe different data types in VB.NET.                | 5 |
| b) | Write a program to merge two different arrays into one. | 5 |

**OR**

- |    |  |   |
|----|--|---|
| c) | Explain different features of VB.NET.                                | 5 |
| d) | Write a program to print whether entered number is Palindrom or not. | 5 |

**3.** Either:

- |    |   |   |
|----|---|---|
| a) | Describe Abstract class and sealed class in VB.NET.                     | 5 |
| b) | Write a program to create abstract class and override the method of it. | 5 |

**OR**

- |    |  |   |
|----|--|---|
| c) | Explain testing phases and its strategies.   | 5 |
| d) | Write a program to count number of character in the following message<br>"Its difficult to Count". | 5 |

4. Either:
- a) Explain ADO. Also explain ADO.NET object with its uses. 5
  - b) Explain in detail about N-Tier database application. 5

**OR**

- c) Explain how editing and updating is done using ADO object with suitable example. 5
  - d) Write a program to demonstrate the working of stored procedure. 5
5. Solve all the questions:-
- a) Explain the mechanism of garbage collection in VB.NET. 2½
  - b) Explain any one loop control statement in VB.NET. 2½
  - c) Explain Dynamic link Library in detail. 2½
  - d) Explain ADO.NET exceptions with suitable example 2½

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