Sl. No.

B3.5-R4 : VISUAL PROGRAMMING

NOTE :
1. **Answer question 1 and any FOUR from questions 2 to 7.**
2. **Parts of the same question should be answered together and in the same sequence.**

Time : 3 Hours   **Total Marks : 100**

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1.   (a)   What is .NET Assembly ? Differentiate it from a DLL.

(b)   What is Namespace ? Write a short note on Namespaces.

(c)   Explain compilation process of .NET program.

(d)   What is inheritance ? Does VB.Net support multiple inheritances ?

(e)   What are the major components of .NET framework ?

(f)   What is Debugging and Error Handling in Dot Net Technology ?

(g)   Explain Garbage Collection in .NET.   **(7x4)**

2.   (a)   What is Dialog ? Explain following Dialogs with its usage.

(i)   OpenFileDialog

(ii)   SaveFileDialog

(b)   Write a short note on GDI+.

(c)   Write console based program in code behind language VB.net or C#.net to print following pattern.

1

1 2

1 2 3

1 2 3 4   **(6+6+6)**

3.   (a)   Differentiate between data reader and dataset.

(b)   Differentiate between List Box and Combo Box in VB.NET? Explain with example ?

(c)   What do you mean by managed provider ? How managed providers are supported in ADO .NET.   **(6+6+6)**

4.   (a)   What is Theme ? Create skin file to format various controls and give code to apply theme in ASP.Net webpage.

(b)   Draw and explain ADO.NET architecture with its new features.   **(10+8)**

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5. (a) Draw neat and clean diagram of .NET framework.

(b) What is 'End to DLL Hell' problem ? Discuss it.

(c) What is the role of CLR in .NET framework ? Explain any five services offered by CLR.

(6+6+6)

6. (a) Explain usage of following ADO.Net objects with their methods.
   (i) SqlDataAdapter
   (ii) SqlCommand object
   (iii) Dataset

(b) Explain syntax with respect to VB .NET.
   (i) If-else
   (ii) Switch case

(c) How to pass values from one windows form to another ? Explain with example.

(6+6+6)

7. (a) Differentiate between Cookies and Session. How to create Cookies and Session ? Explain with its syntax and write ASP.NET program to illustrate the concept of Cookies and Session.

(b) Explain the concept of master pages in ASP.NET with example. **(10+8)**

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