

## 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

1.
  - a) Define the term MSIL? Discuss its importance and role in the .Net framework.
  - b) What is the difference between value type and reference type in VB.Net? Explain with an example.
  - c) What is an Exception in VB.Net? How are they handled? Give a suitable example.
  - d) What is ADO.Net? Discuss briefly, insertion, deletion and updation of values in a database from a Front-End application using ADO.Net.
  - e) What is an Assembly? Differentiate it from a DLL.
  - f) What is inheritance? Does VB.Net support multiple inheritances?
  - g) What is validation? How many types of validation control are available in ASP.Net?

**(7x4)**
  
2.
  - a) What is a Namespace? Name at least two predefined Namespace? How can you create your own Namespace? Give a brief example.
  - b) Differentiate ADO.Net from Classic ADO?
  - c) What is a cookie? How are cookies managed in ASP.Net? Explain.

**(6+6+6)**
  
3.
  - a) How many types of modes are available in ASP.Net to make a connection with a Database? How can one create connection using SqlDatabase in ASP.Net. Explain with an example.
  - b) What is a Destructor? Differentiate it from the Garbage Collector. What is the method to delete by force some resources in ASP.Net. Give suitable example?

**(9+9)**
  
4.
  - a) Create a login form in VB.Net and validate that if a user enters the login and password more than three times the login button will be disabled automatically? Explain with an example.
  - b) What is difference between Server.Transfer and Response.Redirect? How can we move data from one form to another in ASP.Net. Explain.

**(9+9)**
  
5.
  - a) Write a function to put the following values in a combo box through code
    - i) "Chicago"
    - ii) "Delhi"
    - iii) "Vellore"
  - b) What is Master Page? How we can display data in Grid View Control? Explain with an example?
  - c) What is the difference between a Textbox and a Rich Textbox? How can a textbox be disabled?

**(6+9+3)**

**6.**

- a) What is state management? Explain how sessions are used for state management?
- b) Describe the printing model supported by VB.Net.
- c) What is a console application? When is it used? Explain.

**(6+6+6)**

**7.**

- a) What is a Web Service? How we can launch it using web method? Give an example.
- b) What is the use of EXECUTE SCALAR () method of SqlCommand? How can it be used in a VB.Net application?
- c) What is "Base Class Library"? How many Base Class Libraries are available in VB.Net?
- d) Explain the following terms:
  - i) Data Reader
  - ii) Data Adapter
  - iii) Connected Mode
  - iv) ActiveX Controls

**(4+4+6+4)**