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) What is .NET Framework? What are the main components of .NET Framework?

b) What is Garbage Collection? Can we forcefully do the Garbage collection in .Net?

c) State the differences between the Dispose() and Finalize().

d) What is inheritance? What are the different types of inheritance supported by .NET?

e) What is exception? How VB.Net handle exception?

f) What are the different types of assembly? Explain in brief.

g) What is Jagged Array in VB.NET? Explain with example.

(7x4)

2.

a) What is URL rewriting? How cookies and session management can be implemented by URL rewriting in ASP.NET?

b) What is theme? How themes can be created in ASP.Net? Discuss with example.

(10+8)

3.

a) Create a Resume Data form with a SAVE button in VB.NET that enters the particulars of an individual like Name, Address (Street-No, Street-Name, City, State, Country), Age, Gender, Educational Qualifications, Hobbies etc. Validate to check that all fields are compulsory and Age is not be less than 18 years.

b) What is IIS (Internet Information Server)? How to configure IIS in windows platform? What is the use of IIS server?

(9+9)

4.

a) What is POSTBACK? How page load is different from POSTBACK?

b) What is Global assembly cache? Write down the steps for creating your own assembly and make it global.

c) What is QueryString and what are its benefits and limitations? Explain with example.

(5+6+7)

5.

a) What is JIT and how it works?

b) List out the steps to create a master page and the use of the master page?

c) What are the differences between Response.Redirect and Server.Transfer? Explain with example.

(6+6+6)

6.

a)   What is ActiveX control? How to create user control? Explain with example.

b)   Write a console application using VB.NET to find whether a string and number is palindrome or not.

c)   Write a console code to check whether a given number is prime or not.

(7+7+4)

7.   Write a Short Note on following:

a)   Common Language Infrastructure (CLI)

b)   Refection API

c)   .NET Event Handling

(6+6+6)