

B3.5-R4: VISUAL PROGRAMMING

«QP_SRLNO»

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 the basic difference between ASP and ASP.NET?
- b) What is the difference between Page Theme and Global Theme?
- c) Why don't we have multiple inheritances in .NET?
- d) What are the differences between an Abstract class and an Interface?
- e) What are the advantages of code-behind feature in ASP.NET?
- f) What is boxing and unboxing in .net? Why is it required?
- g) Is the number of web.config files dependent upon the project? Explain.

(7x4)

2.

- a) What is IIS? Why is it used?
- b) What are the events that happen when a client requests an ASP.NET page from IIS server?
- c) How can an email message be sent from an ASP.NET Web page?
- d) What is Tracing? Where is it used?

(5+5+4+4)

3.

- a) What are the benefits of using ADO.NET in .NET 4.0?
- b) What is a DataSet class? Explain the usage of DataTable and DataRelation objects? Write any four properties and four methods of the DataSet class.
- c) What is the role of a DataAdapter object?

(7+7+4)

4.

- a) What is a data type? How many types of data types are there in .NET? Explain the characteristics of each of the data types.
- b) What is dll hell problem in .NET and how can it be solved?
- c) What is a thread? How it can be created? How a thread is killed? Do you require any exception handling while killing a thread.

(5+5+8)

5.

- a) How are Window Form Controls different from ActiveX Controls?
- b) Write the different ActiveX Controls that do not work in Window Forms.
- c) How can they be made functional in Window Forms?

(6+6+6)

6.

- a) What is the role of page directives in web designing using ASP.NET?
- b) Write a program to calculate the grade in a subject of a student by entering marks. Design appropriate user interface in VB.NET. The grade calculation rules are as follows:
 - If mark \geq 90 then award A+ grade.
 - If 80 \leq marks $<$ 90 then award A grade.
 - If 70 \leq marks $<$ 80 then award B+ grade.
 - If 60 \leq marks $<$ 70 then award B grade.
 - If 50 \leq marks $<$ 60 then award C+ grade.
 - If 40 \leq marks $<$ 50 then award C grade.
 - If 30 \leq marks $<$ 40 then award D grade.
 - If mark $<$ 30 then award F grade.

(6+12)

7.

- a) Define Context menu in VB.NET.
- b) What are Events? Do events have return type? Can events have access modifiers?
- c) What is XML? Is XML case-sensitive? If XML does not have a closing tag, will it work?
- d) Explain with suitable example the basic features of Object Oriented Programming using VB.NET?

(6+4+4+4)