

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 are the various types of Validations in VB.NET? Explain with example.
 - b) Define constructors and destructors.
 - c) What are the major components of .NET framework?
 - d) What is Finalizer? Explain how to implement it?
 - e) How does a Label differ from a Text Box especially during execution of a program?
 - f) Define Namespace in VB.NET and what is the need of namespace in VB.NET?
 - g) What are the various File mode options in VB.NET? Write a short code for writing data in the file?

(7x4)
2.
 - a) What is the difference between Common Language Runtime (CLR), Common Language Specification (CLS) and Common Type System (CTS)?
 - b) What is the difference between Data Grid, Data List and Repeater in ADO.NET?
 - c) What are Master pages in ASP.NET? Explain their working? Describe advantages of Master pages.

(6+6+6)
3.
 - a) Explain the concept of inheritance in Windows Form with the help of an example?
 - b) Explain the ADO.NET object model and explain Data Provider and Data Set in detail? Discuss the various features of ADO.NET?

(9+9)
4.
 - a) Define information modeling? Consider the following statement `<?xml version="1.0" encoding="UTF-8"?>`. Which component of XML document does the above statement represent?
Create an XML document for a company that sells toys and books. The XML document should include the product details like product name, brief description, price and the available quantity at hand. Also a product id should be there that uniquely identifies each product?
 - b) Explain Structured and Unstructured Exception Handling in VB.NET with Example.

(12+6)
5.
 - a) What is the use of CSS in theme? Explain inline, internal, external CSS with example?
 - b) What is error log? Explain event log in .NET.
 - c) What are data-controls in .NET? Explain data bound and data source control?

(6+6+6)
6.
 - a) What are cookies? What are the limitations of cookie? Write a program to create a cookie.
 - b) What is the need of Web Services in .NET? Explain with example?
 - c) What is the difference between List Box and Combo Box in VB.NET? Explain with example?

(6+6+6)
7. Writes short notes on the following:
 - a) Data Reader and Data Adapter
 - b) GDI+
 - c) Connected and Disconnected environments in ADO.NET and also list the classes present in both the environments

(6+6+6)