Reg. No. : | | | | | | | | | | | |

V 4104

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Seventh Semester

Computer Science and Engineering

CS 1010 — C# AND .NET FRAMEWORK

(Regulation 2004)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — ($10 \times 2 = 20$ marks)

1. What are boxing and unboxing?

2. Define inter-operability. How does .Net achieve this?

3. Distinguish between ref and out parameters.

4. What is inclusion polymorphism?

5. What is disconnected data architecture? What is the advantage of this?

6. What is the use of data adapter?

7. What are post back events? Give example.

8. Define : Marshaling.

9. Differentiate between Data reader and Data set.

10. What is DLL hell? How is it rectified in .Net?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the following with example : (4 × 4 = 16)

(i) for ... each (ii) structures

(iii) arrays (iv) array list.

Or

(b) (i) Describe the characteristic of .Net architecture. (6)

(ii) Discuss about indexers in detail. (10)

12. (a) Explain creating and using delegates with example.

Or

(b) Discuss about inheritance and polymorphism in detail.

13. (a) Write a program using ADO.Net to connect to the 'Northwind' database and read the names of the employees. The 'Employee' table has 2 fields namely 'First Name' and 'Last Name'.

Or

(b) Implement the following in datasets :

(i) Adding a row (4)

(ii) Adding a new data column (4)

(iii) Deleting a row (4)

(iv) Updating a row. (4)

14. (a) (i) Describe in detail the lifecycle of webform. (6)

(ii) Explain any one data bound control in a program. (10)

Or

(b) Explain the creation of calculator web-service. Test this program using a client program.

15. (a) (i) Describe about assembles in detail. (8)

(ii) What is reflection? Explain with an example. (8)

Or

(b) Write a remoting application which returns the maximum and minimum temperature of a given city. (16)