2007-PUNJAB TECHNICAL UNIVERSITY

B.E / B.TECH DEGREE EXAMINATION

C# AND .NET FRAMEWORK

(COMPUTER SCIENCE ENGINEERING, IT)

TIME-3HOUR
MARKS-100

ANSWER ALL QUESTIONS.

PART-A [1082=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 it is rectified in .NET.

PART-B [5*16=80 MARKS]

1. A) EXPLAIN THE FOLLOWING

i. For each

ii. Structures

iii. Arrays

iv. Array list

Or

b) i. Describe the characteristic of .net architecture.

ii. Discuss about indexers in detail.

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

ii. Adding a new data column

iii. Deleting a row

iv. Updating a row

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

ii. Explain any one data bound control in a program.

Or

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

15). A) i. Describe about assembles in detail.

ii. What is reflection. Explain with example.

Or

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