Illustrate with the program how to control the accessibility of members by using the public (06 Marks) and private keywords. Explain with an example how to create a multidimensional array. Distinguish how jagged b.

arrays are better than multidimensional arrays with example. (08 Marks)

Illustrate with neat diagram what is boxing and unboxing.

(06 Marks)

Module-3 Define a params array. List out the restrictions on params array with suitable example. 5 (10 Marks) What is the need for virtual functions? Explain with example. (10 Marks)

OR

- Write a C# program to demonstrate multiple interfaces. (08 Marks) 6 a. Write a C# program to demonstrate garbage collector. (08 Marks) b. (04 Marks)
 - Explain in detail dispose method and IDisposable interface.

b.

1 of 2

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

M.R.

Module-4

7 a. Define properties. Explain how to create and use properties to provide controlled access to data in an object with example. (06 Marks)

b. What are the problems with the object type? How can you solve these problems using generic class with example? (08 Marks)

c. Explain how to create automatic properties.

(06 Marks)

OR

8 a. Define an indexer. List and explain set of operators provided by a C# that can be used to access and manipulate bits in a int. (10 Marks)

b. What is generic method? Implement a generic method which is independent of the type of data on which it operates to swap two data. In Main() method display the value of data before swapping and after swapping. Demonstrate program for 'char' and int type values.

(10 Marks)

Module-5

9 a. Explain implementation of an enumerator by using iterator.

(06 Marks)

- b. Define delegate. Explain the use of delegate in C# with an programming example. (06 Marks)
- c. Explain declaring, subscribing, unsubscribing and raising with respect to an event. (08 Marks)

OR

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10 a. Define LINQ. Explain LINQ to selecting, filtering and ordering data with an example.

(10 Marks)

b. Explain operator overloading constraints. Write a C# program for operator + overloading.

(10 Marks)