

 - JUN 2006

Subject Code—4383-X

M.C.A. EXAMINATION

June, 2006

(Fifth Semester)

(Re-appear)

MS-32

C SHARP C# PROGRAMMING

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any *Five* questions. All questions carry equal marks.

1. What are the key benefits of the .NET Framework and the CLR ? What are the drawbacks ?
2. (a) Write a program that finds all of the prime numbers between 1 and 100.
(b) What is Garbage Collection and how does it work ? What is a destructor ?

P.T.O.

3. (a) What is an Indexer ? In an indexer, what functions must its *get* and *set* assessors perform ?
- (b) How does a *struct* differ from a *class* ?
4. (a) Using interfaces, we can implement multiple inheritance characteristic in a class. How ? Give an example.
- (b) Explain the role of **delegates** in C# with example.
5. (a) We can write the **Main Method** in four different ways. List them state significance of each of them.
- (b) What is an Exception ? Describe the tasks involved in handling exceptions. Give some examples.
6. (a) Distinguish between *ref* and *out* parameters with an example.
- (b) What is boxing and unboxing ? Give an example.

7. (a) Write a detailed note on operator overloading with the help of a program.
(b) With the help of a program explain the inheritance feature in C#.
8. What is Polymorphism ? How is runtime polymorphism achieved ? Explain with example.