K-1640

M. Sc. (Sem. VII) (I. T.) Examination

October / November – 2012

701 : C#.NET

Time : 3 Hours]   [Total Marks : 70

Instruction :

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **M. SC. (SEM. 7) (I. T.)**

Name of the Subject :

☛ **701 : C#.NET**

☛ Subject Code No. : | 1 | 6 | 4 | 0 | ☛ Section No. (1, 2,.....) : **Nil**

Seat No. :

Student's Signature

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1 (A) Attempt any FIVE from followings: [10]
  1. How we can create a class which can't be inherited?
  2. What is CLR?
  3. How to create our own namespace in .NET?
  4. What is Assembly?
  5. Explain Anonymous type.
  6. What is CLS?

(B) Explain difference between Structure and Class types with example. [06]

2 Attempt any THREE from the followings: [18]
  1. Explain compilation and execution on a .NET application with .NET framework reference.
  2. What is Interface? How it useful for large application development? Explain by giving example.
  3. Explain advantages of ArrayList over Array with example.
  4. How we can create a three tire application in C#? Also state its advantages for application management.

3 Answer the following questions: (Any THREE) [18]
  1. What is Delegate in C#? How it is helpful to call multiple methods in an application? Justify your answer with example.
  2. How to give triggered facility in a C# class to call user specified method on certain activities of instance of a class? Justify with proper example.
  3. What is Generic class? How to create it? Explain its advantages over a simple class.
  4. Write a note on Indexer. By giving example also explain why it is also known as smart array.

4 Do as directed:
  (A) What is LINQ? What types of facilities it provides for .NET programmer? [04]
  (B) What is Reflection? How we can get all information of any assembly using it? Also [06]
  explain various methods with small example.

OR

(B) What is Serialization? Why we need it? Explain Binary serialization with example.

(C) Write LINQ queries using Query format or Lambda expression for customers' [08] information. Use Entity framework for following queries.

    i.   Select all customers whose name starts with "K".

   ii.   Select all customers whose annual income is between 5Lkh and 7Lkh.

  iii.   Select customer name, address and phone number who lives in Gujarat.

  iv.   Get city wise customers average income.