



**JC-1644**

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

**March/April – 2013**

**701 : C#.NET**

Time : 3 Hours]

[Total Marks : 70

**Instruction :**

નીચે કર્યાલે <input checked="" type="checkbox"/> નિશાનીવાળી ચિગતો ઉત્તરવહી પર અવસ્થા લખવી. Fillup strictly the details of <input checked="" type="checkbox"/> signs on your answer book.		Seat No.:
Name of the Examination :		<input type="text" value=""/>
<input checked="" type="checkbox"/> M. SC. (SEM. 7) (I.T.)		Seat No.:
Name of the Subject :		<input type="text" value=""/>
<input checked="" type="checkbox"/> 701 : C#.NET		Student's Signature
Subject Code No. : <input type="text" value="1"/> <input type="text" value="6"/> <input type="text" value="4"/> <input type="text" value="4"/>		Section No. (1, 2,.....) : <input type="text" value="Nil"/>

- 1** (a) Attempt any five from followings : **10**
- (i) What is Sealed Class ?
  - (ii) What is CLS ?
  - (iii) What is Code Snippet ?
  - (iv) How to create nested namespaces in .NET ?
  - (v) What is Assembly ?
  - (vi) Explain Anonymous type.
- (b) Explain .NET framework role for compilation and execution of a C# application. **6**
- 2** Attempt any three from the followings : **18**
- (i) How we can create and use our class library in C# application ?
  - (ii) What is collection ? How various collection types are useful in C# application ?
  - (iii) How we can create a three tire application in C# ? Also state its advantages for application management.
  - (iv) What is Indexer ? Why it is known as smart array ? Give proper example.
- 3** Answer the following questions : (Any three) **18**
- (i) How to call more than one method with same signature in single call ? Give proper example.

- (ii) How we can create an application with triggering of a user method if something happen to a specific user defined object ? Explain with proper example.
  - (iii) Explain concept of Generic class with proper example. Also explain its advantages over a simple class.
  - (iv) Explain usage of Interface for large application development with example.
- 4 Do as directed :
- (a) What is Reflection ? How we can get all information of 6 any assembly using it ? Also explain various methods with small example.
- OR**
- (a) What is Serialization ? Why we need it ? Explain XML serialization with example.
  - (b) What is LINQ ? What types of facilities it provides for 4 .NET programmer ?
  - (c) Write LINQ queries using Query format or Lambda expression for employees' information. Use Entity framework for following queries. 8
    - (i) Select all employees whose surname starts with "A".
    - (ii) Select all employees whose monthly income is between 10000 and 15000.
    - (iii) Select employee name, address and phone number who lives in Gujarat.
    - (iv) Get department wise employee average salary.