# P-1694

## M. Sc. (IT) (Sem. VII) Examination
### March/April – 2014
### 701 : C#.NET

Time : **3** Hours]                                                  [Total Marks : **70**

**Instructions :**

(1)

| નીચે દર્શાવેલ 👉 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.<br>**Fillup strictly the details of 👉 signs on your answer book.**<br>Name of the Examination : | Seat No. : |
|---|---|
| 👉 **M. Sc. (IT) (Sem. VII)** | |
| Name of the Subject : | |
| 👉 **701 : C#.NET** | |
| 👉Subject Code No.: **1 6 9 4**  👉Section No. (1, 2,.....) : **Nil** | Student's Signature |

(2)    All questions are compulsory.

(3)    Draw figure(s) and give example(s) whenever necessary.

**1**    (a)    Attempt any five from followings :                                   **10**

      (i)    How we can create a class which must be inherited?

      (ii)    What is CLS?

      (iii)    What is Code Snippet?

      (iv)    How to create nested namespaces in .NET?

      (v)    What is mscorlib.dll? What it contains?

      (vi)    Explain protected internal access modifier.

    (b)    How we can create a three tire application in C#? Also    **6**
state its advantages for application management.

**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)    Explain .NET framework role for complication and execution
of a C# application.

    (iv)    What is Indexer? Why it is known as smart array? Give
proper example.

**3** Do as directed :

    (a) How to call more than one method with same     **6**
          signature in single call? Give proper example.

<center>**OR**</center>

    (a) Explain usage of Interface for large application
          development with example.

    (b) What is LINQ ? What types of facilities it provides for     **4**
          .NET programmer ?

    (c) By taking your own assumptions write LINQ queries     **8**
          for following requirements.

          (i) Select all employees whose surname having characters
              "a" or "r".

          (ii) Select all employees whose average salary is less than
              10000.

          (iii) Select employee name, address and phone number who
              lives in Gujarat.

          (iv) Get department wise employee average salary.

**4** Answer the following questions : (any three)     **18**

    (i) What is event? How to create and use user defined events
          in C#?

    (ii) How we can get all information of any assembly using
          Reflection? Also explain various methods with small example.

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

    (iv) Explain concept of Generic class with proper example. Also
          explain its advantages over a simple class.

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