# DH-1741

## M. Sc. (IT) (Sem. VII) (External) Examination
### March / April - 2016
### 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. (IT) (SEM. VII) (EXTERNAL)**

Name of the Subject :

☞ **701 : C#.NET**

☞ Subject Code No. : | 1 | 7 | 4 | 1 |   ☞ Section No. (1, 2,......) : **Nil**

Seat No. :

Student's Signature

**1  Attempt any THREE:**           **[18]**
1. How .NET Framework allows developing an application using multiple languages?
2. How Collection is useful for data management in C# application? Explain with example.
3. "Property type in .NET breaks data hiding". Justify your answer with proper example.
4. "We can create a class which can perform operations on any type of data specified by user at runtime", Justify.

**2  (A) Write LINQ statements for following queries by taking your assumptions (Any Five):**    **[10]**
1. Find average of eight float values
2. Get all users whose name contains "sh".
3. List files of size 1024 bytes from given path.
4. Get names after removing character 'r'.
5. Find employees having salary between 25000 and 75000.
6. Get all employees of production, sales and purchase departments.

**(B)** What is LINQ? Explain its advantages and different patterns to use it in C# application.    **[06]**

**3  Attempt any THREE:**           **[18]**
1. How we can call homogeneous methods by single call of statement in .NET?
2. Is it possible to extract any .NET assembly contents? Justify your answer with supporting example.
3. "Structure and Class type are same in C#". Comment on the statement with example.
4. Demonstrate runtime polymorphism using C# application.

**4  Attempt any THREE:**           **[18]**
1. What is Indexer? Is it different than array? Justify your answer with example.
2. How we can create and use a Generic Interface in C#?
3. How user defined events can be created for a class? Explain its advantages over predefined events.
4. How to store and retrieve a memory data to use it in future without a change of relationship among them in .NET? Write C# code to justify your answer.