



**A-1741**  
**M. Sc. (I.T.) (Sem. VII) Examination**  
**March/April – 2015**  
**701 - C#.NET**

Time : 3 Hours]

[Total Marks : 70

**Instruction :**

<p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"><b>M. Sc. (I.T.) (Sem. VII)</b></div> <p>Name of the Subject :</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"><b>701 - C#.NET</b></div> <p>Subject Code No. : <div style="display: inline-block; border: 1px solid black; padding: 2px 5px;">1</div> <div style="display: inline-block; border: 1px solid black; padding: 2px 5px;">7</div> <div style="display: inline-block; border: 1px solid black; padding: 2px 5px;">4</div> <div style="display: inline-block; border: 1px solid black; padding: 2px 5px;">1</div> Section No. (1, 2,.....): <div style="display: inline-block; border: 1px solid black; padding: 2px 5px;">Nil</div></p>	<p>Seat No. :</p> <div style="display: flex; justify-content: space-around; margin-bottom: 10px;"><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div></div> <div style="border: 1px solid black; border-radius: 10px; height: 80px; display: flex; align-items: center; justify-content: center; margin-top: 10px;">Student's Signature</div>
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**1 Attempt any THREE : 18**

1. Write a note on Collection in C#.
2. What is Delegate in .NET? How it is helpful in large application development?
3. "Property type in .NET is helpful for data hiding", Justify with proper example.
4. How .NET Framework allows developing an application using multiple languages?

**2 Attempt any THREE : 18**

1. Write a note on Binary Serialization. Also give its advantages and disadvantage over direct data storage.
2. How threads are useful for parallel execution? Explain with proper example.
3. What is generic type in .NET? By giving example explain how we can restrict type usage at runtime?
4. "Interface is a blue print of class type." justify with proper example.

- 3** (A) Write LINQ statements for following queries by **10**  
taking your assumptions (Any Five) :
1. Get all users whose name starts with "R".
  2. Find vehicles having price between 45000 and 58000.
  3. Get all employees of production, HR and Accounts departments.
  4. Find average of five float values
  5. List files having size greater than 2000 bytes from given path.
  6. Remove character "t" from the specified string.
- (B) What is LINQ? Explain its advantages and different **06**  
patterns to use it in C# application.
- 4** Attempt any THREE : **18**
1. How we can extract file and folder information in C#?
  2. How user defined events are created in C#?
  3. What is Indexer? How it is different than array type?  
Explain with comparative example.
  4. Is it possible to extract any .NET assembly contents?  
Justify your answer with supporting example.
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