



**DDD-1659**

**M. Sc. (I.C.T.) (Sem. II) (External) Examination**  
**March / April - 2016**  
**201 : 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 :  <input style="width: 90%;" type="text" value="M. Sc. (I.C.T.) (Sem. II) (External)"/></p> <p>Name of the Subject :  <input style="width: 90%;" type="text" value="201 : C#.NET"/></p> <p>Subject Code No. : <input style="width: 20px;" type="text" value="1"/> <input style="width: 20px;" type="text" value="6"/> <input style="width: 20px;" type="text" value="5"/> <input style="width: 20px;" type="text" value="9"/> Section No. (1, 2,.....) : <input style="width: 40px;" type="text" value="NIL"/></p>	<p>Seat No. :  <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/></p> <div style="border: 1px solid black; border-radius: 10px; height: 80px; margin-top: 10px; display: flex; align-items: center; justify-content: center;"> <p>Student's Signature</p> </div>
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- 1 Attempt any three : 18
  - (i) Explain .NET Framework in detail for multilingual application development.
  - (ii) What is Generic type in .NET ? How it is useful for operation intensive requirement ?
  - (iii) How user defined events can be created for a class ? Explain its advantages over predefined events.
  - (iv) "Structure type and Class type are same in C#". Comment on the statement with example.
  
- 2 (a) Write LINQ statements for following queries by taking your assumptions : 10
  - (i) Get all users whose name contains "sh".
  - (ii) Find employees having salary between 25000 and 75000.
  - (iii) Get all employees of production, sales and purchase departments.
  - (iv) List files of size 1024 bytes from given path.
  - (v) Find average of ten integer values.
  
- (b) Explain LINQ architecture and its usage in .NET application development. 6

**3** Attempt any three : **18**

- (i) Write a note on Collection in C#.
- (ii) What is Reflection in .NET ? How assemblies are referred by it at runtime ?
- (iii) How threads are useful for parallel execution ? Explain with proper example.
- (iv) What is Delegate in .NET ? How it is helpful in large application development ?

4 Attempt any three : 18

- (i) What is Indexer ? Is it different than array ? Justify your answer with example.
- (ii) “Property type in .NET breaks data hiding.” Justify your answer with proper example.
- (iii) What is Interface ? How it helps to design huge application in .NET ? Give proper example.
- (iv) Write a note on XML Serialization.

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