



JC-1644
M. Sc. (Sem. VII) (I.T.) Examination
March/April – 2013
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 : M. SC. (SEM. 7) (I.T.)</p> <p>Name of the Subject : 701 : C#.NET</p> <p>Subject Code No. : 1 6 4 4 Section No. (1, 2,.....) : Nil</p>	<p>Seat No. : <div style="border: 1px solid black; width: 100px; height: 30px; margin: 2px;"></div><div style="border: 1px solid black; width: 100px; height: 30px; margin: 2px;"></div><div style="border: 1px solid black; width: 100px; height: 30px; margin: 2px;"></div><div style="border: 1px solid black; width: 100px; height: 30px; margin: 2px;"></div><div style="border: 1px solid black; width: 100px; height: 30px; margin: 2px;"></div><div style="border: 1px solid black; width: 100px; height: 30px; margin: 2px;"></div></p> <div style="border: 1px solid black; width: 100%; height: 80px; margin-top: 10px; display: flex; align-items: center; justify-content: center;"><p>Student's Signature</p></div>
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- 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 any assembly using it ? Also explain various methods with small example. 6

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 .NET programmer ? 4
- (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.