Reg. No. ☐☐☐☐☐☐☐☐☐

MCAH 304

Third Semester M.C.A. Degree Examination, December 2018
.NET TECHNOLOGY

Time : 3 Hours   Max. Marks : 70

***Note** : Answer **any five full** questions. **All** questions carry **equal** marks.*

1. a) What are the building blocks of .NET platform ? Briefly explain the role of base class libraries and Managed vs. Unmanaged Code. **7**

   b) Write a note on the process of compilation and execution of a .NET application using csc.exe. **7**

2. a) What are the different ways a method can be overloaded in C# ? **6**

   b) With suitable example write the various method parameters employed by C#. **8**

3. a) Explain the concept of Jagged Arrays in C# with suitable example. **6**

   b) Justify with examples and explain how the following concepts have been implemented in C# ? **8**
      i) Encapsulation
      ii) Inheritance.

4. a) What is a Delegate ? What are the multicast delegates ? Explain with example. **7**

   b) Define operator overloading. Write a C# program to perform addition and multiplication of complex numbers by overloading the '+' and '*' operators respectively. **7**

5. a) Explain the significance of property and indexers with example. **5**

   b) What is a .NET Assembly ? How to build shared assembly ? Explain in detail with example code. **9**

6. a) List and explain common namespaces used for ADO .NET also list most common classes in those namespaces. **8**

   b) What is LINQ ? What are the advantages of LINQ ? **6**

7. a) What is connected architecture in ADO .Net ? **4**

   b) How to create Web Applications in C# ? Write a program to create a simple web application using C# and explain. **10**

8. a) Write a note on DataSet, DataTable, DataRow and DataAdapter. **8**

   b) Explain the concept of master pages in ASP.NET with example. **6**

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