Printed Pages: 3 **NMCA-513/NMCAE-26**

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID :214503 Roll No.

MCA

Regular Theory Examination (Odd Sem-V), 2016-17

DOT NET FRAMEWORK AND C#

Time : 3 Hours *Max. Marks : 100*

Note : Attempt all Section. If require any missing data; then choose suitably.

SECTION - A

1. **Attempt all questions in brief.** (2×10=20)

a. Differentiate Const. and read - only.

b. Define Boxing. Give example.

c. How does an Array List differ from Array?

d. What are the uses of indexers?

e. What are sealed classes?

f. Differentiate Mulitasking and Multithreading.

g. How do ADO.NET connected and disconnected models differ from each other?

h. Mention the syntax of Data Grid View class.

i. What is WSDL?

NMCA-513/NMCAE-26

j.   List out server side state management options supported by ASP.NET.

SECTION - B

2.   **Attempt any three of the following :**   **(3×10=30)**

a.   Explain with example enumerations and arrays in C#.

b.   List out important characteristics of C#.

c.   Discuss the type of parameter passed to methods of C#

d.   Discuss about mutable strings with example.

e.   How does C# support multiple Inheritance? Explain giving an example.

SECTION - C

3.   **Attempt any one part of the following :**   **(1×10=10)**

a.   Describe the use of properties, with an example.

b.   Write a program to find area of various shapes like rectangle, circle and triangle using the concept of interfaces.

4.   **Attempt any one part of the following :**   **(1×10=10)**

a.   What do you mean by delegates? State their use with an example.

b.   Explain the exception handling mechanism in C#. Write user defined exceptions for overflow and stack empty exceptions in a class created for stack data structure.

5. **Attempt any one part of the following:** (1×10=10)

   a. Explain : Multi - threading with example.

   b. Write a menu - driven application using (i) File menu option (ii) About Menu option. Demonstrate the execution model using an example.

6. **Attempt any one part of the following :** (1×10=10)

   a. How would you build an XML web service? Explain with an example.

   b. What is reflection? Explain its use with example.

7. **Attempt any one part of the following :** (1×10=10)

   a. What is Remoting? Explain the steps involved in the process of creating Remoting Application.

   b. Write notes on the following :

      i) Assemblies.

      ii) NET coding design guidelines.