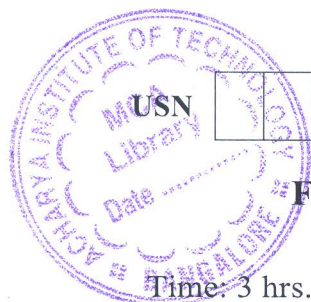# CBCS SCHEME

18MCA51

Fifth Semester MCA Degree Examination, Jan./Feb. 2023
Programming Using C# .NET

Time: 3 hrs.

Max. Marks: 100

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1   a. Explain the CLR activities for executing the program.   **(10 Marks)**
     b. Write a C# program to implement command line arguments.   **(10 Marks)**

OR

2   a. Explain the concept of boxing and unboxing operations. Write a C# program to implement boxing and unboxing.   **(10 Marks)**
     b. Discuss the architecture of .Net framework with a neat diagram.   **(10 Marks)**

Module-2

3   a. Define Property. Explain the Read-only and static property accessors in C# with help of a program.   **(10 Marks)**
     b. Discuss briefly the access modifiers in C# and classify the data types in C#.   **(10 Marks)**

OR

4   a. Discuss the concept of constructors and destructors with C# program as example.   **(10 Marks)**
     b. Define Array. Briefly discuss how they are categorized with example. Write a C# program to implement Jagged Array.   **(10 Marks)**

Module-3

5   a. Write a C# program to implement and explain the concept of multicasting a delegate.
                                                                                                                       (10 Marks)
     b. Write a C# program to implement try, catch, finally and also explain checked and unchecked statements with example.   **(10 Marks)**

OR

6   a. Describe Event. Write a C# console application to demonstrate the concept of multi event handler for a single event.   **(10 Marks)**
     b. Explain Data Adapter for creating dataset with an example program.   **(10 Marks)**

Module-4

7   a. Explain the components of ADO.NET entity framework with a neat diagram.   **(10 Marks)**
     b. Describe the steps involved in creating MDI form with output.   **(10 Marks)**

OR

8   a. Describe Markup extension classes in XAML.   **(10 Marks)**
     b. Write a C# program to implement check box and Radio button.   **(10 Marks)**

Module-5

9   a. Define AJAX in ASP.NET? Explain the need and features of AJAX technology.   **(10 Marks)**
     b. Discuss and design a tree view control using ASP.NET. Explain with an example program.
                                                                                                                       (10 Marks)

OR

10   a. Design a web form in ASP.NET using link label control, month calendar control and date time piclar with example program.   **(10 Marks)**
     b. Explain validation controls using ASP.NET with example.   **(10 Marks)**

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