

# CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

16MCA52

## Fifth Semester MCA Degree Examination, Dec.2018/Jan.2019 Programming using C# and .NET

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Explain benefits of .NET framework. (06 Marks)  
b. Explain the components of .NET framework with the help of architectural diagram. (10 Marks)

OR

- 2 a. Write a C# program to explain boxing and un-boxing. (06 Marks)  
b. What is jagged array? Write a program in C# to read a jagged array and display the sum of all elements present in jagged array of 3 inner arrays. (10 Marks)

### Module-2

- 3 a. Write a C# program to explain accessor and mutator and properties used in encapsulation. (10 Marks)  
b. List the difference between properties and indexes. (06 Marks)

OR

- 4 a. Write a C# program to explain interface inheritance and implementation of interfaces. (06 Marks)  
b. Explain array of objects with the help of a program. (05 Marks)  
c. Write a C# program to calculate square and addition of number using delegates. (05 Marks)

### Module-3

- 5 a. Write a C# program using try, catch, finally and explain checked and unchecked statements. (06 Marks)  
b. Explain what is event? Write a C# console application to demonstrate the concept of multiple event handler for a single event. (10 Marks)

OR

- 6 a. Explain the components of ADV.NET entity frame work. (06 Marks)  
b. Discuss the components of dataset. (04 Marks)  
c. Explain DataAdapter for creating dataset with an example program. (06 Marks)

### Module-4

- 7 a. Explain the steps involved in creating MDI form. (06 Marks)  
b. Discuss the properties, events of checked text box control. Write a C# program and illustrate checked box. (10 Marks)

OR

- 8 a. Explain WPF architecture with a neat diagram. (08 Marks)  
b. Explain XAML elements with an example. (04 Marks)  
c. Explain Markup extension classes in XAML. (04 Marks)

### Module-5

- 9 a. Explain the architecture of multitier application. (08 Marks)  
b. Explain web application development with ASP.NET by using steps to explain validation controls. (08 Marks)

OR

- 10 a. What is AJAX? Need for AJAX. (06 Marks)  
b. Explain AJAX server controls:  
(i) ScriptManager control (ii) Update panel control (10 Marks)

\*\*\*\*\*

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.