USN | | | | | | | | | | | **18MCA51**

Fifth Semester MCA Degree Examination, Feb./Mar. 2022
Programming using C# •Net

Time: 3 hrs.   Max. Marks:100

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

Module-1

1 a. Briefly explain the components of .Net framework.   (10 Marks)
     b. Explain the different types of keywords in C#.   (10 Marks)

OR

2 a. Explain type conversion, Boxing and unboxing in C#.   (10 Marks)
     b. Briefly explain the 3 types of arrays in C#.   (10 Marks)

Module-2

3 a. With example, explain 4 different ways of using 'this' keyword in C#.   (12 Marks)
     b. With simple program explain, creating an array of objects.   (08 Marks)

OR

4 a. Explain key value pair, Ref/out parameter and class/struct methods for returning multiple values.   (10 Marks)
     b. With program explain encapsulation by accessor and mutator and encapsulation by properties.   (10 Marks)

Module-3

5 a. With program explain 2 ways to invoke delegate in C#.   (10 Marks)
     b. Discuss briefly about events and event Handler in C#.   (10 Marks)

OR

6 a. With example, describe exception handling in C#.   (10 Marks)
     b. Discuss how ADO.NET provides a bridge between front end controls and backend data base.   (10 Marks)

Module-4

7 a. Explain control properties and layout used in windows forms.   (10 Marks)
     b. List the common properties and a common event of a TextBoxes.   (10 Marks)

OR

8 a. List the common properties of GroupBox and panel. Write a simple programme for handling GroupBox and panel in windows form.   (10 Marks)
     b. Explain WPF architecture. Add a note on new WPF controls.   (10 Marks)

Module-5

9 a. What is AJAX? Write the need for AJAX and advantage of AJAX over other technologies.   (10 Marks)
     b. Describe the most frequently used AJAX server controls.   (10 Marks)

OR

10 a. What is cookie? Explain how session tracking is achieved using cookies.   (10 Marks)
      b. Explain use of Gridview control in ASP.Net.   (10 Marks)

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