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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)
