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16/17MCA52

Fifth Semester MCA Degree Examination, Jan./Feb. 2021
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. Write the architecture of .NET framework with necessary diagrams. (08 Marks)
    b. What is Common Language Runtime? Discuss the role of CLR in executing a program. (08 Marks)

OR

2   a. Define boxing and unboxing. Explain the same with an example program. (08 Marks)
    b. Define the following:
       (i)   CTS   (ii) Metadata and assemblies
       (iii) Name Space   (iv) Scope of variables and its categories. (08 Marks)

Module-2

3   a. Write a C# program to illustrate the concept of Nested Classes. (06 Marks)
    b. How properties are used to access data members in C#? Explain with an example program. (05 Marks)
    c. Define static members. How static members are used in C# program? (05 Marks)

OR

4   a. What is runtime polymorphism? Illustrate the same with a program. (08 Marks)
    b. How multiple interfaces can be implemented in C#? Explain with an example program. (08 Marks)

Module-3

5   a. What is Delegate? Write a C# program to create and implement a delegate. (08 Marks)
    b. Define event. Explain the implementation of event with an example program. (08 Marks)

OR

6   a. What is exception? List any four common C# exceptions. (05 Marks)
    b. Write a C# program to implement nested try blocks. (05 Marks)
    c. How custom exceptions are handled in C#? Explain with an example program. (06 Marks)

Module-4

7   a. Write a C# program to display hidden text in a password box. (08 Marks)
    b. Write a C# program to change fonts using checkboxes. (08 Marks)

OR

8   a. Write a C# program to draw on a form using the mouse. (08 Marks)
    b. Write a program to add, removes and clear ListBox items. (08 Marks)

Module-5

9   a. Discuss about Multitier Application Architecture. (08 Marks)
    b. What is Session tracking? Explain the same with respect to Cookies. (08 Marks)

OR

10 a. How to create an Website using ASP.NET? (08 Marks)
    b. What is AJAX? Discuss about script manager control and update panel control in AJAX. (08 Marks)

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