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13MCA53

Fifth Semester MCA Degree Examination, Dec.2016/Jan.2017
Programming using C# and •NET

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. Explain the components and benefits of •Net framework with the help of architecture diagram. (12 Marks)
 - b. What is an assembly? Explain each component of an assembly. (08 Marks)
- 2
 - a. Explain the different data types in C#. (10 Marks)
 - b. What are different types of type conversions supported by C#. (06 Marks)
 - c. Describe the significance of 'is' and 'as' operator. (04 Marks)
- 3
 - a. Explain different method parameter modifier with suitable examples. (08 Marks)
 - b. Write a short notes on the following :
 - i) Partial classes and methods (08 Marks)
 - ii) Indexers. (04 Marks)
 - c. Write a program in C# to read a jagged array and display the sum of all the elements of inner array. (04 Marks)
- 4
 - a. How method overriding is different from method overloading? Illustrate with examples. (08 Marks)
 - b. Explain sealed classes and sealed methods. (05 Marks)
 - c. How would you enforce encapsulation using accessor and mutators? Explain with suitable code. (07 Marks)
- 5
 - a. How delegates are used in C#? Discuss single cast and multicast delegates? (10 Marks)
 - b. "Catching one exceptions programmatically is good and necessary mechanism" justify with suitable examples. (06 Marks)
 - c. Write short notes on multiple event handlers. (04 Marks)
- 6
 - a. Discuss panel control with respect to windows form. (06 Marks)
 - b. Explain the implementation of combobox in C#. (08 Marks)
 - c. Write a program for addition of two numbers, by accepting numbers from text boxes and display the result in the form using button click event. (06 Marks)
- 7
 - a. Explain the components of ADO•NET entity framework (06 Marks)
 - b. How data adapter is used to build database applications? (10 Marks)
 - c. Discuss the components of dataset. (04 Marks)
- 8
 - a. Explain different validation control with suitable examples supported by ASP•NET. (08 Marks)
 - b. Write a web based application to check the entered user name and password are valid or not. Check the entered user name and password of a web form with a database table. (08 Marks)
 - c. Write a short note on sessions in ASP•NET. (04 Marks)

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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.