



USN

13MCA53

Fifth Semester MCA Degree Examination, Dec.2019/Jan.2020
Programming using C# .NET

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain benefits of .NET frame work. (05 Marks)
b. What is managed and unmanaged code? Explain the process of compilation and execution of a code by just in time compiler. (05 Marks)
c. What are preprocessor directives? Explain with example. (10 Marks)
- 2 a. What are reference types? Explain different predefined reference types with example. (05 Marks)
b. What are arrays? Write a C# program to read and display the multidimensional array. (05 Marks)
c. Explain Null Coalescing operator with example. (10 Marks)
- 3 a. What are partial class and partial methods? Explain why partial classes are important with an example. (10 Marks)
b. What are different ways of passing parameters to a method? Explain with examples. (10 Marks)
- 4 a. What is encapsulation? Explain the advantages of encapsulation and demonstrate how properties are used to implement encapsulation. (10 Marks)
b. What are runtime polymorphisms? Explain with example. (10 Marks)
- 5 a. What are multicast delegates? Explain with an example. (10 Marks)
b. What are checked and unchecked statements in C#? Explain with example. (05 Marks)
c. What are exceptions? Explain how exceptions are handled in C# with example. (05 Marks)
- 6 a. What are tool tip? Explain different properties of tool tips. (05 Marks)
b. Write a code snippet to create GUI for entering two number to perform arithmetic operation and display the result in a label on button click. (10 Marks)
c. Explain different events and properties of combo box with example. (05 Marks)
- 7 a. What is dataset? Explain different components of dataset. (05 Marks)
b. Write a C# program to connect to database, populate the dataset with multiple table and display the result in a grid view control. (10 Marks)
c. What is connection string? Explain connection string parameters. (05 Marks)
- 8 a. With neat diagram, explain 'N' tier application architecture. (10 Marks)
b. Explain different standard web control used in web application development. (05 Marks)
c. What are Namespaces? Explain any four system namespaces provided by C#. (05 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.