



CBCS SCHEME

16/17MCA52

Fifth Semester MCA Degree Examination, June/July 2019 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. Explain the benefits and architecture of .NET framework. (08 Marks)
b. What is an Assembly? Describe the information stored in assembly manifest by differentiating and multiple assemblies. (08 Marks)
- 2 a. With a neat diagram explain the workflow of .NET execution engine. (08 Marks)
b. Bring out the difference between value types and reference types and also write a program for boxing and unboxing. (08 Marks)

Module-2

- 3 a. Discuss the different ways of enforcing encapsulation? Give examples for both the methods. (08 Marks)
b. Explain indexers with suitable example. (08 Marks)
- 4 a. How do you prevent inheritance using sealed classes? Explain with an example. (08 Marks)
b. Demonstrate operator overloading using C# program with syntax to overload the + and - operator. (08 Marks)

Module-3

- 5 a. What are delegates? Explain the concepts of multicast delegates with an example. (08 Marks)
b. Explain how custom exceptions will be created in C# with suitable example. (08 Marks)
- 6 a. Describe the architecture of ADO.NET with a neat diagram. (08 Marks)
b. Explain the procedure of getting connected to a database and running the following queries with relevant example:
(i) Insert record to a table.
(ii) Delete records from a table. (08 Marks)

Module-4

- 7 a. Illustrate the working of checkBox, RadioButton, textBox and GroupBox controls with windows form application example. (08 Marks)
b. Write short notes on MDI window forms and EventDriven GUI. (08 Marks)
- 8 a. What is GUI? List and explain basic controls of GUI. (08 Marks)
b. Discuss the new features of WPF controls. (08 Marks)

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.

Module-5

- 9 a. Discuss in detail about multi-tier application architecture. (08 Marks)
b. Explain the session management in ASP.NET using controls. (08 Marks)
- 10 a. Explain the controls from AJAX control toolkit. (08 Marks)
b. Describe the different validation controls in ASP.NET. (08 Marks)

* * * * *