

CBCS SCHEME



18MCA51

Fifth Semester MCA Degree Examination, Jan./Feb. 2021 Programming Using C#.NET

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the components of .NET framework with the help of architecture diagram. (10 Marks)
b. Explain the different data types in C#. (10 Marks)

OR

- 2 a. Write short notes on :
i) Windows work flow foundation ii) Windows card space. (10 Marks)
b. Bring out the difference between value types and reference types. Also explain boxing and unboxing with the help of an simple program. (10 Marks)

Module-2

- 3 a. Explain with example the method of implementing encapsulation using general method and using class properties. (10 Marks)
b. Distinguish between compile time polymorphism and runtime polymorphism with the help of example. (10 Marks)

OR

- 4 a. Explain the following with example :
i) Static class and static members ii) Abstract class. (10 Marks)
b. Demonstrate interface inheritance and implementation of interfaces, with the help of code example. (10 Marks)

Module-3

- 5 a. What are Delegates? Explain with the help of example the steps in creating and using delegates and also the concept of multicasting with delegates. (10 Marks)
b. Explain the architecture of ADO.NET with a neat diagram and also list the ADO.NET providers. (10 Marks)

OR

- 6 a. Write a C# program using try, catch and finally to explain integral type exception handling using checked and unchecked statements. (10 Marks)
b. Write and explain the steps to create a connection to database and run queries using SQL server database. (10 Marks)

Module-4

- 7 a. Explain WPF architecture. With neat diagram. (10 Marks)
b. Explain the following :
i) Event driven GUI ii) MDI windows. (10 Marks)

OR

1 of 2

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.

- 8 a. List and explain the control class properties and methods. (10 Marks)
b. Explain the following :
i) XAML elements.
ii) Markup extension classes in XAML. (10 Marks)

Module-5

- 9 a. Explain in detail multitier application architecture. (10 Marks)
b. Explain different validation controls with suitable example supported by ASP.NET. (10 Marks)

OR

- 10 a. What are Cookies? Explain session management in ASP.NET using cookies. (10 Marks)
b. Explain the following AJAX server controls :
i) Script Manager Control.
ii) Update Panel Control (10 Marks)
