



CBCS SCHEME

16/17MCA52

USN

Fifth Semester MCA Degree Examination, Jan./Feb. 2023 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. What is .NET framework? Explain benefits of .NET framework. (08 Marks)
b. Briefly describe the role of CLR in .NET framework. (08 Marks)

OR

- 2 a. Explain window workflow foundation and window presentation foundation with neat diagram. (08 Marks)
b. What is boxing and unboxing? Explain with example. (08 Marks)

Module-2

- 3 a. Explain types of formal parameter in C#, with example. (08 Marks)
b. What are properties in C#? Explain with example. (08 Marks)

OR

- 4 a. What is encapsulation? Explain advantages of encapsulation. (08 Marks)
b. What is compile time polymorphism? List and explain any one of the polymorphism method. (08 Marks)

Module-3

- 5 a. What are delegates? Explain multicasting with delegates. (08 Marks)
b. What is exception handling? What are different blocks that C# uses to handle the exception? Explain with example. (08 Marks)

OR

- 6 a. What is ADO.NET? Explain different ADO.NET objects. (08 Marks)
b. Write a C# program which connects to SQL SERVER, reads the data from employee database and displays EmployeeID in combo box. (08 Marks)

Module-4

- 7 a. Explain the control properties which are common to all the control is C#. (08 Marks)
b. Explain GroupBoxes and Panels with example in C#. (08 Marks)

OR

- 8 a. What is XML? Explain XML in detail. (08 Marks)
b. What is XAML? Explain how XAML used in WPF (Window Presentation Foundation). (08 Marks)

Module-5

- 9 a. With neat diagram, explain multitier application architecture. (08 Marks)
b. Explain in detail different validation control in ASP.NET. (08 Marks)

OR

- 10 a. Explain with neat diagram Ajax web application. (08 Marks)
b. Explain the different Ajax 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.