

CBCS SCHEME

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20MCA42

Fourth Semester MCA Degree Examination, Dec.2023/Jan.2024 Programming using C# •NET

Time: 3 hrs.

Max. Marks:100

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

Module-1

- 1 a. With a neat diagram, explain the components of .Net framework. (10 Marks)
b. Write a C# program to perform boxing and unboxing logic. (10 Marks)

OR

- 2 a. Write short notes on
i) Window presentation foundation (10 Marks)
ii) Window workflow foundation. (10 Marks)
b. Explain partial classes and partial method with example. (10 Marks)

Module-2

- 3 a. Write a C# program to read Jagged array and display the sum of all elements of inner array. (10 Marks)
b. What is namespace? Explain the steps involved in creating namespaces. (10 Marks)

OR

- 4 a. Explain sealed classes and sealed methods with proper syntax. (05 Marks)
b. Explain encapsulation using accessors and mutators. (05 Marks)
c. With a program explain runtime polymorphism. (10 Marks)

Module-3

- 5 a. What are delegates? How to create delegates explain with example. (10 Marks)
b. With a neat diagram explain ADO .Net architecture. (10 Marks)

OR

- 6 a. What are dataadapters? List and explain different dataadapters in C#. (10 Marks)
b. List all the steps to create a connection of database in SQL. (10 Marks)

Module-4

- 7 a. Explain various mouse events in C#. (05 Marks)
b. List the steps involved in creating MDI forms. (05 Marks)
c. With a neat diagram explain WPF architecture. (10 Marks)

OR

- 8 a. Write short notes on : i) MDI window ii) Event driven GUI. (10 Marks)
b. Explain control properties and layouts in C#. (10 Marks)

Module-5

- 9 a. Explain section tracking methods. (10 Marks)
b. Explain different validation control present in ASP.Net. (10 Marks)

OR

- 10 a. Explain standard web controls in ASP.Net. (10 Marks)
b. List and explain basic controls of Ajax. (10 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.