

CBCS SCHEME

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Fifth Semester MCA Degree Examination, Jan./Feb. 2023 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 CLR activities for executing the program. (10 Marks)
b. Write a C# program to implement command line arguments. (10 Marks)

OR

- 2 a. Explain the concept of boxing and unboxing operations. Write a C# program to implement boxing and unboxing. (10 Marks)
b. Discuss the architecture of .Net framework with a neat diagram. (10 Marks)

Module-2

- 3 a. Define Property. Explain the Read-only and static property accessors in C# with help of a program. (10 Marks)
b. Discuss briefly the access modifiers in C# and classify the data types in C#. (10 Marks)

OR

- 4 a. Discuss the concept of constructors and destructors with C# program as example. (10 Marks)
b. Define Array. Briefly discuss how they are categorized with example. Write a C# program to implement Jagged Array. (10 Marks)

Module-3

- 5 a. Write a C# program to implement and explain the concept of multicasting a delegate. (10 Marks)
b. Write a C# program to implement try, catch, finally and also explain checked and unchecked statements with example. (10 Marks)

OR

- 6 a. Describe Event. Write a C# console application to demonstrate the concept of multi event handler for a single event. (10 Marks)
b. Explain Data Adapter for creating dataset with an example program. (10 Marks)

Module-4

- 7 a. Explain the components of ADO.NET entity framework with a neat diagram. (10 Marks)
b. Describe the steps involved in creating MDI form with output. (10 Marks)

OR

- 8 a. Describe Markup extension classes in XAML. (10 Marks)
b. Write a C# program to implement check box and Radio button. (10 Marks)

Module-5

- 9 a. Define AJAX in ASP.NET? Explain the need and features of AJAX technology. (10 Marks)
b. Discuss and design a tree view control using ASP.NET. Explain with an example program. (10 Marks)

OR

- 10 a. Design a web form in ASP.NET using link label control, month calendar control and date time piclar with example program. (10 Marks)
b. Explain validation controls using ASP.NET with example. (10 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.