

CBCS SCHEME

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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)
