CBCS SCHEME

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17CS564

Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024
Dot Net Framework for Application Development

Time: 3 hrs. Max. Marks: 100

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

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.

Module-1

1 a. What is Namespace? How namespace is used to solve name – clashing problem. Explain with example. **(06 Marks)**

b. Explain the following with examples :
i) Statements ii) Identifiers iii) Keywords. **(06 Marks)**

c. Write a C# program to find first 'N' Fibonacci Numbers. **(08 Marks)**

OR

2 a. Define Scope of variable. Explain the following with example :
i) Local scope ii) Class scope. **(10 Marks)**

b. Write a C# program for adding two numbers using try and catch for the following exception
i) Format exception ii) Overflow exception. **(10 Marks)**

Module-2

3 a. Define Constructors. Explain constructor overloading with programming example. **(06 Marks)**

b. Describe the Static class, Static method and data with an example. **(06 Marks)**

c. Explain value type and reference type and boxing and unboxing with programming example. **(08 Marks)**

OR

4 a. Briefly explain "ref" and "out" keywords with examples. **(05 Marks)**

b. Define Enumerations with Syntax. Write C# program that display month name and its numeric value using enum. **(07 Marks)**

c. Describe the structures and jagged arrays with examples. **(08 Marks)**

Module-3

5 a. Define a Params arrays. List out the restrictions on params array with suitable example. **(10 Marks)**

b. What is the need for a virtual functions? Explain with example. **(10 Marks)**

OR

6 a. Write a C# program to demonstrate multiple interfaces. **(08 Marks)**

b. Write a C# program to demonstrate garbage collector. **(08 Marks)**

c. Explain in detail dispose method and IDisposable interface. **(04 Marks)**

Module-4

7 a. How would you enforce encapsulation using read and write properties in C#? Explain in detail. **(10 Marks)**

b. Define an Indexer. List and explain set of operators provided by C# which can be used to access and manipulate the individual bits in an integer value. **(10 Marks)**

OR

8 a. Build a C# program to implement stack <T> collection class. (10 Marks)
b. Develop a C# program to construct a binary tree using generics. (10 Marks)

Module-5

9 a. Explain implementation of an enumerator by using iterator. (06 Marks)
b. Define Delegate. Explain the use of delegate in C# with an programming example. (06 Marks)
c. Explain Declaring , Subscribing , Unsubscribing and Raising with respect to an event. (08 Marks)

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OR

10 a. Define LINQ. Explain LINQ to selecting, filtering and ordering data with an example. (10 Marks)
b. Explain Operator overloading constraints. Write a C# program for operator + overloading. (10 Marks)

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