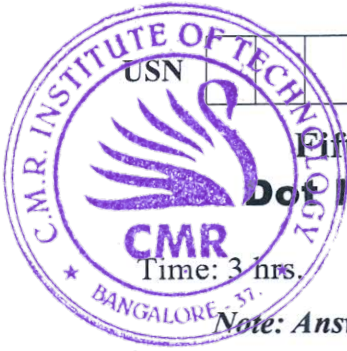


# CBCS SCHEME



17CS564

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

Max. Marks: 100

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

### Module-1

- 1 a. Define Namespace in C#. What are its uses? Name any 3 Name namespace with their description. (08 Marks)
- b. Define Exception. Explain with an example. (06 Marks)
- c. Write a C# program to generate Fibonacci series upto n. Read 'n' from console device. (06 Marks)

OR

- 2 a. Explain how to use while, for and do statement to execute code repeatedly with an example. (09 Marks)
- b. Define Method. List and explain different method parameters. (05 Marks)
- c. Write a C# program that accept userName, City and age. Display the same using methods. (06 Marks)

### Module-2

- 3 a. Define constructor. Write a C# program to demonstrate constructor overloading. (08 Marks)
- b. Explain partial class with an example. (06 Marks)
- c. Explain boxing and unboxing with an example. (06 Marks)

OR

- 4 a. Differentiate between Class and Structure. (06 Marks)
- b. Define Jagged array. Explain with an example how Jagged arrays are declared. (06 Marks)
- c. Write a C# program to compute row sum and column sum of an array. (08 Marks)

### Module-3

- 5 a. Define method overloading. Explain different forms of override a method with an example. (08 Marks)
- b. Define Inheritance. Mention different forms of inheritance with syntax. Explain any one with an example. (12 Marks)

OR

- 6 a. Define garbage collection. Give the syntax of destructor. List out steps taken by the garbage collector to destroy objects. (08 Marks)
- b. Write a note on Abstract class and Abstract method. (06 Marks)
- c. Write the restriction for Interface in C#. (06 Marks)

### Module-4

- 7 a. Define Property. How are they declared and used? Explain with an example. (08 Marks)
- b. Define Generic class. Mention features of Generic classes. Write C# program for swapping values using generic method. (09 Marks)
- c. Compare indexer and arrays. (03 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.

OR

- 8 a. Explain the stack <T> collection class with an example. (08 Marks)  
b. Define Indexer. Explain how indexers used with interface. (08 Marks)  
c. Differentiate between Arrays and Collections. (04 Marks)

**Module-5**

- 9 a. Define Iterator. Explain how enumerator is implemented using an Iterator. (08 Marks)  
b. Write a note on Delegate. (04 Marks)  
c. Explain Language Integrator Query for selecting and filtering data. (08 Marks)

OR

- 10 a. Define Event. Explain how Event is subscribed and unsubscribed with an example. (10 Marks)  
b. Explain operator overloading and their constraints with a programming example. (10 Marks)

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