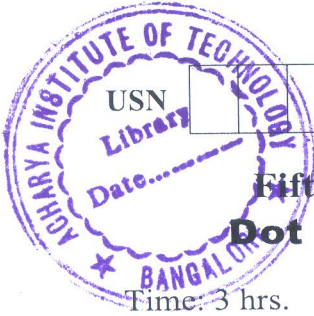15CS564

USN

Fifth Semester B.E. Degree Examination, July/August 2021
Dot Net Framework for Application Development

Time: 3 hrs.   Max. Marks: 80

Note: *Answer any FIVE full questions.*

1   a.   Explain the following:
         i)   Statements
         ii)   Identifiers
         iii)   Keywords
         iv)   Namespace.   **(08 Marks)**
    b.   Explain the following: i) Local scope   ii) Class scope.   **(08 Marks)**

2   a.   Write a C# program for adding two numbers using try and catch for the following exceptions:
         i)   Format Exception
         ii)   Overflow Exception.   **(08 Marks)**
    b.   Explain checked and unchecked keywords with example.   **(08 Marks)**

3   a.   Explain partial and anonymous classes with example.   **(08 Marks)**
    b.   Explain the use of ref and out parameters.   **(08 Marks)**

4   a.   List out the difference between structures and classes.   **(08 Marks)**
    b.   What is the need for jagged array? Explain with example.   **(08 Marks)**

5   a.   What is params array? List the rules for using params array with example for each.
                                                                        (08 Marks)
    b.   Explain how extension methods are used for a type with example. **(08 Marks)**

6   a.   What is interface? List out the restrictions for implementing interfaces.   **(08 Marks)**
    b.   What is the need for garbage collector? Explain how dispose method is called from a destructor.   **(08 Marks)**

7   a.   What are properties? Explain Read-only and Write-only properties.   **(08 Marks)**
    b.   What is an indexer? Explain how to implement an interface Indexer in a class (or) structure.
                                                                        (08 Marks)

8   a.   Explain covariant interface with example.   **(08 Marks)**
    b.   What are Collection classes? List all the Collection classes with its description.   **(08 Marks)**

9   a.   What is iterator? Explain how to implement an enumerator by using a iterator.   **(08 Marks)**
    b.   What are delegates? Explain with example how to subscribe an event.   **(08 Marks)**

10 a.   What is LINQ? Explain with example how to join data held in different Collections.
                                                                        (08 Marks)
    b.   Define Operator Overloading. Explain built-in and user-defined conversion operators with example.   **(08 Marks)**

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