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15CS564

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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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.