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15CS564

# Fifth Semester B.E. Degree Examination, Jan./Feb.2021 • Net Framework for Application Development

Time: 3 hrs. Max. Marks: 80

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

#### Module-1

- 1 a. Explain the general structure of C# program with an example. (06 Marks)
  - b. How can C# compiler implicity infer the type of a variable? Explain with suitable examples.
     (06 Marks)
  - c. Explain expression bodied methods with a suitable example.

(04 Marks)

#### OR

2 a. Consider the following code:

public void DoWorkWithData(int intData, float, floatData, int moreData)

// some codes

Suppose it has two more implementations as follows:

public void DoWorkWithData (int intData)

// some codes

and

public void DoWorkWithData (int moreData)

// some codes

This code will fail to compile since it fails to invoke correct overloaded version. How can this issue be solved?

(08 Marks)

Explain try, catch, finally and throw keywords with syntax and an example. (08 Marks)

#### Module-2

- 3 a. How can you state a class, method and data to be static? Give suitable examples. (09 Marks)
  - b. Explain various ways of copying array elements.

(07 Marks)

#### OR

- 4 a. How does C# facilitate in modifying the original argument passed to a method, when the data it references changes within the method? (08 Marks)
  - b. Explain the concept of boxing and unboxing.

(04 Marks)

Differentiate between class and structure.

(04 Marks)

#### Module-3

- a. Write a C# program that has a class TwoDShape with fields dim1 and dim2 and a method area(). Create a derived class Triangle and Rectangle that inherits TwoDShape. Override method area () to calculate area of Rectangle and Triangle. (08 Marks)
  - b. Write a C# program having a method to calculate the sum of a variable number of int arguments passed to it and returing the result as an int. (08 Marks)

1 of 2

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|----|----|--|-------------------|
|    |    | OR   | V.                |
| 6  | a. | How is multiple inheritance supported in C#? Explain with an example.  | (08 Marks)        |
|    | b. | What is the need for garbage collector? How does it work?  | (08 Marks)        |
|    |    | Module-4   |                   |
| 7  | a. | Explain set and get access method with an example.   | (08 Marks)        |
|    | b. | Define indexer with an example. Demonstrate with an example.   | (08 Marks)        |
|    |    | OR   |                   |
| 8  | a. | What is the use of generic classes? Write a C# program for swapping:  (i) Two integers  (ii) Two characters, using generic method. | (08 Marks)        |
|    | b. | Explain Stack <t> collection class with an example.</t>  | (08 Marks)        |
|    |    | Module-5   |                   |
| 9  | a. | Define delegate. How is it declared? Explain with an example.  | (07 Marks)        |
|    | b. | Write Language Integrated Query(LINQ) to select, filter and order data.  | (09 Marks)        |
|    |    | OR   |                   |
| 10 | a. | How does · NET facilitate to define and trap significant actions and arrange   | for a delegate to |
|    |    | be called?   | (08 Marks)        |
|    | b. | Write a C# program for overloading + operator.   | (08 Marks)        |
|    |    |  |                   |