

# CBCS SCHEME



15CS546

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## Fifth Semester B.E. Degree Examination, June/July 2019 Dot 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. What is a console application? Explain the steps to create a console application in visual studio 2015. (07 Marks)
- b. Explain the purpose of namespaces and assemblies. (04 Marks)
- c. Explain the steps to create a graphical application and create a user interface to print the greeting message. (05 Marks)

OR

- 2 a. Define local scope and class scope. (02 Marks)
- b. Create a method that calculates all arithmetic operations (+, -, \*, /, %(mod)) and explain the procedure to generate a method stub wizard that help you to write methods. Explain the use of visual studio 2015 debugger to step in and step out of method call as they run. (10 Marks)
- c. Explain the exception handling using try and catch statements. (04 Marks)

### Module-2

- 3 a. Explain the propose of encapsulation and define a class and control the accessibility of members in a class, illustrate with an example? (07 Marks)
- b. What is a constructor? Explain the object creation that invoke the constructor, write and call your own constructor by explaining with an example. (05 Marks)
- c. Explain in detail anonymous classes with an example. (04 Marks)

OR

- 4 a. Explain ref and out parameters with an example. (06 Marks)
- b. Give the differences between a structure and class. (04 Marks)
- c. Write a method that can accept any number of arguments of any type by using the params keyword. (06 Marks)

### Module-3

- 5 a. What is inheritance? Discuss about method hiding and overriding by using the new, virtual and override keywords. (08 Marks)
- b. Define an interface by specifying the signatures and return type of methods and implement an interface in a structure and class. (08 Marks)

OR

- 6 a. Explain in detail how garbage collection works. (08 Marks)
- b. Given the purpose dispose method and explain the calling of dispose method from destructor. (08 Marks)

1 of 2

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-4**

- 7 a. Explain the use of get and set assessors. (06 Marks)
- b. Describe an interface containing properties by using structure and classes. (04 Marks)
- c. What is an indexer? Differentiate between indexers and arrays. (06 Marks)

**OR**

- 8 a. Explain in detail about generics. (02 Marks)
- b. Explain the functionality provided in the different collection classes available within the •NET frame work. (14 Marks)

**Module-5**

- 9 a. Define an enumerator that can be used to iterate over the elements in a collection. (04 Marks)
- b. Explain the use of delegates and given examples of delegates in the •NET framework class library. (12 Marks)

**OR**

- 10 a. Declare an event. Explain in detail about raising an event and handling an event by using a delegate. (06 Marks)
- b. Define Language-Interred Query (LINQ) queries to examine the contents of enumerable collections. (10 Marks)

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