CBCS SCHEME

USN | | | | | | | | | | |

15CS546

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.*

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-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)**

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

CMRIT LIBRARY
BANGALORE - 560 037

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)**

* * * * *