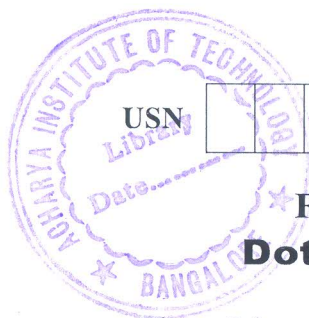


# CBCS SCHEME



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15CS564

## Fifth Semester B.E. Degree Examination, Aug./Sept. 2020 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. Implement general structure of C# program with suitable example. (06 Marks)
- b. Using expression bodied method, write a C# program to read two arguments as parameter and return output values as addition, subtraction, product and division as output parameter from a method. (06 Marks)
- c. Mention the difference between local scope and class scope with example. (04 Marks)

OR

- 2 a. Discuss the code syntax for the following :
  - i) try/catch block
  - ii) checked/unchecked
  - iii) throw
  - iv) finally. (08 Marks)
- b. Write a C# program to determine the largest of three numbers. (04 Marks)
- c. List the different types of operators in C#. Explain any one in brief. (04 Marks)

### Module-2

- 3 a. What is static method? With an example, illustrate how to declare and call a static method. (04 Marks)
- b. Give differences between value types and reference types. (06 Marks)
- c. Explain the use of ref and out parameter with code snippet. (06 Marks)

OR

- 4 a. Explain different ways of copying an array from system. Array class. (06 Marks)
- b. Differentiate between structure and class. (05 Marks)
- c. Write a C# program to create an array of person with name and age as fields and display the youngest person in the family by taking age as criteria. (05 Marks)

### Module-3

- 5 a. Discuss params array and params objects. (04 Marks)
- b. Illustrate the concept of method overriding with an example. (06 Marks)
- c. What is an interface? Describe explicitly implementing an interface with an example. (06 Marks)

OR

- 6 a. Differentiate between abstract class and sealed class. (05 Marks)
- b. Explain how garbage collector works. (05 Marks)
- c. Implement the using statement and the IDisposable interface, with an example. (06 Marks)

**Module-4**

- 7 a. Demonstrate how to declare read only property and write only property for a structure or class. (06 Marks)  
b. Compare Indexers and arrays. (04 Marks)  
c. Define indexers in interfaces with an example. (06 Marks)

**OR**

- 8 a. Examine the issues with object type and the purpose of generics. (08 Marks)  
b. Explain Queue < T > collection class with an example. (08 Marks)

**Module-5**

- 9 a. Implement an enumerator by using a simple iterator. (08 Marks)  
b. What is a delegate? Create an instance of a delegate initialized with a single specific method. (08 Marks)

**OR**

- 10 a. Explain Ordering, Grouping and aggregating data using LINQ expression. (08 Marks)  
b. What is operator overloading? Write a program to overload binary operator '+' to add two complex numbers. (08 Marks)

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