Course: BCA III Subject: C# and .NET Framework Subject Code: 21BCA3C8L

Unit 1

1. Explain the components of .NET framework (CLR, FCL, CTS and CLS).
2. Explain the characteristics of C#.
3. State the difference between C# and Java.
4. State the difference between C# and C++.
5. Expand MSIL? State its use in ,Net framework.
6. What is JIT?
7. Explain garbage collection.
8. Write the variations of the Main() in C#.
9. What is comment? Explain the different methods to include the comment statement in a C# program.
10. List the methods of System.Console class.
11. State the use of the following methods with an example.
    a. WriteLine()
    b. Write()
    c. ReadLine()
    d. Read()
    e. Readkey()
12. List and explain the methods in System.Environment Class.
13. Write a C# program to show the machine details like machine name, Operating System, Version, Physical Memory and calculate the time since the Last Boot Up.(Hint: Use System. Environment Class)

Unit 2

1. Define and write the declaration/definition (where applicable) syntax with example for the following
    a. Identifiers
    b. Variable
    c. Constant
    d. Tokens
    e. Data types
    f. Pointers
    g. Keywords
    h. Class
    i. Object
    j. Fields
    k. Methods
2. What is access modifier (accessibility levels)? Mention different access modifiers in C#.

3. Explain the properties in class (GET and SET) with and example.
4. What is an operator? List the various operators used in C#.
5. Explain various operators in C#.
6. List and explain the conditional statements in C#
7. List and explain the looping statements in C#.
8. Compare while and do…while loop.
9. What is constructor? Explain different type of constructors with example.
10. Differentiate between constructor and destructor.
11. Explain static member of a Class.
12. What is method overloading? Explain with an example.