UNIT – I

1. Explain different types of application architecture?

2. Why .NET framework? Explain different components of .NET suite?

3. Explain the architecture of .NET framework

4. Explain the process of compilation and execution of .NET application

5. What are the advantages of .NET framework?

6. Explain the different types of applications that can be developed using .NET framework?

7. Explain the various templates available for creating projects in visual studio.NET ?

8. Explain user interface elements of visual studio.NET IDE?

UNIT – II

1. Discuss the features of C#.NET.

2. With example explain the structure of C# main function?

3. With example explain XML documentation comments in C#.NET.

4. What is namespace? Explain the usage of namespaces and using aliases for namespace in C# with example

5. Explain the structure of C# program and I/O statements in C#

6. What is command line arguments and how it is processed in C# program

7. Explain different categories of variables defined in C#.

8. Explain different value type data types supported in C#.

9. Explain different reference type data types supported in C#.

UNIT – III

1. What are different ways to represent strings in C#? Explain with example

2. What are immutable strings? Explain string methods with example

3. What are mutable strings? Explain string builder methods and properties with example

4. Explain with example the usage of regular expression class in C#

5. With example explain how to create different kinds of arrays in C#

6. Explain array class methods with example

7. What is array list and explain any five array list methods with example

UNIT – IV

1. Explain different modifiers that can be specified for C# method

2. Explain different types of method parameters in c#

3. Explain how to define class and objects in C# with example of stack operations

4. Explain classification of C# class members

5. Explain different types of constructors supported in C#

6. With example explain static members of the class

7. Explain properties with example in C#

8. Explain indexers with example in C#

UNIT – V

1. What is inheritance? Explain with example how to define subclass in C#

2. Explain sealed class with an example

3. Explain visibility of class members in C# inheritance

4. Explain with example how to implement polymorphism in C#

5. Explain exception handling in C#

6. With example explain how to implement user defined exception in C#

7. What is interface? Explain how to define, extend and implement interface in C# with example

8. What is an event? Explain with example how to define, subscribe and notify an event in C#

9. What is delegate? With example explain how to declare, instantiate and use delegates in C#

10. With an example explain how to work with files in C#.