1. Which of the following codes displays an integer value as string?
   a. Int Num = 500; string stNum = Num.ToString(); Console.WriteLine(stNum);
   b. int Num = 500; string stNum = Num.ToString(); Console.WriteLine(stNum);
   c. int Num = 500; String stNum = Num.String(); Console.WriteLine(stNum);
   d. int Num = 500; string stNum = Num.toString(); Console.WriteLine(stNum);
2. Which of the following statements about LINQ are true?
   1. LINQ is a programming model introducing data querying methodology for implementing queries.
   2. LINQ has a syntax quite different from SQL query syntax.
   3. LINQ can be used to query in-memory object collections, SQL databases, and XML using a set of querying operators.
   4. LINQ enables developers to work with different formats of data across various data sources.

   Options: 1, 2, 3

   Options: 2, 4, 1

   Options: 3, 4 ????

   Options: 1, 4

3. The steps to create and use a lambda expression are listed below in random order
   1. Create an instance of the delegate and assign the lambda expression to it.
   2. Declare a delegate type which is compatible with the lambda expression.
   3. Display the value of the expression which is the result returned by the lambda.
   4. Invoke the delegate instance with parameters, if any.

   Options: 2, 1, 4, 3

   Options: 1, 3, 4, 2

   Options: 1, 4, 2, 3

   Options: 2, 3, 4, 1

4. _____ is a set of classes to support parallel programming using LINQ.
   a. Parallel LINQ.
   b. Tlinq.
   c. LINQ in Parallel.
   d. Asynchronous LIN.
5. When a C# code is written and saved in the Visual Studio IDE, the .NET solution is saved in a _____ file.
   a. .sln
   b. .csproj
   c. .cs
   d. .exe

6. CLR satnds for _____.
    a. C# Language Runtime
    b. Common Language Runtime
    c. Common Language Repository
    d. Common Layer Runtime
7. Which of the following components of the .NET Framework enable interoperability of dynamic languages with the .NET Framework?
    a. Common Language Runtime (CLR)
    b. Base Framework Classes
    c. Dynamic Language Runtime (DLR)
    d. Common Type System (CTS)
8. What is the function of key containers?
    a. To securely store asymmetric keys
    b. To securely generate asymmetric keys
    c. To securely share the public key
    d. To securely generate private key
9. What does the async keyword in a method signify?
    a. The method will continue executing after invoking an asynchronous operation.
    b. The method will start executing in a new thread.
    c. The method will contain at least one await keyword and will wait until the asynchronous operation specified by the await keyword completes.
    d. The method will continue executing in the main thread even if a new thread is assigned to execute it.
10. Which of the following options are principal components of the .NET Framework? (Choose two correct answers)?
    a. Windows Forms
    b. Framework Class Library (FCL)
    c. Common Language Runtime (CLR)
    d. ASP.NET
11. Which among the following technologies is most suited to use implicity typed arrays, implicity typed variables, and query expressions?
    a. WCF
    b. LINQ
    c. AJAX
    d. WPF
12. Which of the following information of a service endpoint specifies the communication infrastructure that enables communication of message?
    a. Address
    b. Binding
    c. Contract
    d. URL

13. How can you enable communication between threads while synchronizing the threads?
    a. By implementing locking using the lock keyword.
    b. By using synchonization events. ????
    c. By using the ThreadPool class.
    d. By using the Task class.
14. Which of the following elements can be used to initialize a collection?
    1. A value.
    2. An expression.
    3. An object initializer.
    4. A method call.

    Options: 1, 2, 4

    Options: 1, 2, 3, 4

    Otions: 1, 4

    Options: 1, 3, 4

15. Which of the following restrictions for an implicity typed local variable are true?
    1. The variable must be declared and initialized with some value or expression.
    2. They must be initialized to null type.
    3. The var keyword cannot be used as a return type of a method.
    4. The var keyword cannot be used in the argument list of a method.

    Options: 1, 2, 4

    Options: 1, 3, 4

    Options: 1, 2, 3, 4

    Options: 1, 2, 3

16. Which of the following statements are true regarding Task Parallel Library (TPL)?
    a. TPL is a set of public types and APIs in the System.Threading an System.Threading.Tasks namespaces.
    b. TPL is part of the .NET Framework to make parallel and concurrent programming simpler.
    c. TPL provides the Thread class in the System.Threading namespace that represents an asynchronous task in a program.
    d. TPL provides the ThreadPool class in the System.Threading namespace that can be used to cancel a long running task.

    Options: a, b, c

    Options: a, b

    Options: c, d

    Options: a, d