**Q1. What is the main component in the .Net Framework? (T)**

Ans. It consists of **two major components**:

**1.Common language runtime** (CLR):**.Net Framework** provides runtime environment called **Common Language Runtime** (CLR).It provides an environment to run all the It is that provides the execution engine that handles running apps.

**2.Class Library**:This is also called Base Class Library and it is common for all types of application.It is which provides a library of tested, reusable code that developers can call from their own apps.

Q2. Current .Net Standard framework and Current core framework?`(T)

Ans : **Current.Net Standard Framework**:4.8

**Current Core framework**:3.1

**Q3. Difference between Managed and Unmanaged code? (T)**

Ans. Managed Code:A code that is written to aim to get services of the managed runtime environment execution like CLR(Common Language Runtime) in .net framework.

It supports only .net language.

Unmanaged code:A code that executes directly by the operating system.The source code directly compile into native language.

**Q4. What do you mean by MSIL Code? (T)**

Ans . It is a set of Independent instructions that are generated by a language compiler when the project is compiled . MSIL code is not executable but can be processed by CLR before it becomes executable .MSIL is available in .net apps. It is used for compilation purposes..

**Q5. What is the difference between .Net and .Net Core Frameworks? (T)**

Ans. **.NET Framework**-It is not open source.It only works on the windows.It requires licence for accessing it.So ,It is platform dependent.

**.NET Framework**-It is open source.It can work in any platform like windows ,linux etc. It started from 2016 and it is platform independent.

Q6. Explain the execution process of managed code in .Net? (T)

i.Firstly,we will choose the language in which we want to do the code.

ii.Then, it becomes MSIL after the code is compiled by the compiler of the language we use.

iii.then MSIL code is compiled by the compiler of CLR (Just-in-time),

iv.It goes to native language.