CSC496/CSC584 Complexed System/Web Technology
Exam Review Sheet
The exam consists of 25-30 multiple-choice problems. Each is worth 3 points. This list is subject to changes.

Please study the material and understand the meanings of the following terms/concepts/features:

1. ASP.NET MVC - https://docs.microsoft.com/en-us/aspnet/core/mvc/overview
   This web page contains many topics that will be listed also below. Please review all of the terms mentioned in this web page.
2. Dependency Injection - https://docs.microsoft.com/en-us/aspnet/core/mvc/controllers/dependency-injection
   and
   https://docs.microsoft.com/en-us/aspnet/core/fundamentals/dependency-injection
   a. What is it?
   b. Types?
3. Inversion of Control - https://en.wikipedia.org/wiki/Inversion_of_control
   a. What is it?
   b. How can it be achieved?
4. Model Binding - https://docs.microsoft.com/en-us/aspnet/core/mvc/models/model-binding
   a. What is it?
5. Routing
   https://docs.microsoft.com/en-us/aspnet/core/fundamentals/routing
   a. Conventional Routing
   b. Attribute Routing
6. Razor Pages – https://docs.microsoft.com/en-us/aspnet/core/tutorials/razor-pages/razor-pages-start
   a. Compare Razor Pages with Code Behind in ASP.NET (NOT ASP.NET Core)
   b. Razor Pages: Pros and Cons
7. RESTful Web Services and Web API– https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-web-api
   a. End Point
   b. CRUD
   c. JSON
   d. GET (Read), POST (CREATE), PUT (UPDATE), and DELETE(DELETE)
   e. Request Body, Response Body

8. All projects – the concepts involved, examples included but are not limited to the following:
   a. How does a program get started?
   b. How does a database get registered in an App?

    c.   How does a controller find a view?

9. C# Programming Guide –
   https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/
   a. Operators (https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/statements-expressions-operators/overloadable-operators)
   b. Classes
   c. Interfaces
   d. Delegates
   e. Iterators
   f. Lambda Expressions
10. MVC Project Files
    a. appsettings.json
    b. Startup.cs
    c. Program.cs
    d. ConfigurationServices in startup.cs
    e. Middleware in startup.cs
11. Regular Expression –
    https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-mvc-app/validation
    a. Data Annotation
    b. Required - keyword
12. Tools used in your projects
    a. Dotnet
    b. Migration command
    c. Postman
13. Visual Studio 2017 – Only related to features used in our projects
    a. Solution Explorer
    b. Database Explorer
    c. Build, Rebuild, Clear All
    d. Execution
    e. NuGet Package Management