

Guidelines for Examination I
CS795
Summer 2009

Date: June 6, 2009 (Saturday)
Time: 8:30 am-12 pm
Room: Learning Assessment Center, Gortno Building, 1st Floor
Points: 100
Questions: Answer 10 out of 12 (10 points each)

Format: Open book, Open notes, other printed material

Note: Laptops are not permitted; No sharing of books/notes during the exam

Topics covered:

O'Reilly book:

- (1) Fundamentals: Chapters 1-3
- (2) Code access security (CAS) Chapter 5-10 (O'Reilly) and additional material provided
- (3) ASP.Net Application security: Chapter 18

Jeff Prorise book:

- (4) Introduction to .Net: Chapter 1
- (5) ASP.Net Security: Chapter 10
- (6) Web Services: Chapter 11
- (7) ADO.Net: Chapter 12

Additional Material

- (8) Web services security
- (9) Web Service Security: Patterns and Practices: Introduction and Chapter 1 Page 1-72
- (10) Security threats and attacks

Example questions:

When you read the following, assume as if you were presented with a scenario and then asked specific questions related to that. Also, a justification or a conceptual question is also possible.

- (a) In what sense are roles helpful in enforcing security?
- (b) What is a strong name? How can it be created?
- (c) Relationship between assemblies and application domains
- (d) Where can authentication/authorization rules be placed? How to express them?
Windows and forms authentication?
- (e) What are web services? How do we create them in .Net? How do we use them?
How do we use forms authentication to offer secure web services?
- (f) How to open a connection to a database using C# and .Net? How to execute
database operations? Transactions? Parameterized commands? Datasets and data
adapters?
- (g) Different web service authentication patterns? Advantages and disadvantages?
Costs? Examples?