

Name: _____

**CSI 518 Software Engineering
Fall 1996 Midterm Examination
October 22 Tuesday 9:45 - 11:05**

Note: Write your name in the blank provided above and your answers in the space provided following each question. Use the unprinted side of sheets as extra space for any rough work.

Q1 (15 points): (a) Describe the key differences between Waterfall Model and Spiral Model.
(b) How would you design the process of developing a large scale life critical software?

Q2 (10 points): Describe the structure and the uses of the CMM.

Q3 (30Points): Give a five layer's object-oriented analysis for your team project.

Q4 (10 Points): What are the critical risk items of your team project and how do you resolve them.

Q5 (10 Points): What are the key factors for evaluating the design quality?

Q6 (10Points): About 60% of software failures are caused by incomplete or' erroneous specifications, as a software manager explain how you can avoid this type of failures.

Q7 (10 points): Explain the strength and weakness of object-oriented design. **Q7 (5 points):** What are the advantages of developing subsystems?