

CSI 518 Software Engineering
Fall 1998 Final Examination
December 14 Monday 10:30 - 12:30

- (1) Compare the strengths and weaknesses of the black-box testing strategies and the white-box testing strategies in the fault detectability.
- (2) Give an example of traditional testing technique that can also be applied to the object-oriented software and one that is not adequate to test object-oriented software.
- (3) What is software reliability and give an example of technique that can be used to estimate software reliability. Why is this measurement important?
- (4) Describe vertical reuse vs. horizontal reuse and compare their benefits and required overhead.
- (5) Why software maintenance costs 50% to 70% of total development efforts and how would you reduce the cost.
- (6) What are major activities in configuration management and what tools can be used in these activities?
- (7) What types of software need to be re-engineered and how?
- (8) Describe the structure and the significances of CORBA.
- (9) In component based software development, is the existing software process model applicable, if not, suggest how you would modify your software process.