

CSCI 327

Homework 2

Problem No. 1: A cryptographer once claimed that security mechanism other than cryptography were unnecessary because cryptography could provide any desired level of confidentiality, and integrity. Ignoring availability, either justify or refute the cryptographer's claim.

Problem No. 2: Classify each of the following as an example of a mandatory, discretionary, or originator controlled policy, or a combination thereof. Justify your answers.

- a. The file access control mechanisms of the UNIX operation system.
- b. A system in which no memorandum can be distributed without the author's consent.
- c. A military facility in which only generals can enter a particular room.
- d. A university registrar's office, in which a faculty member can see the grades of a particular student provided that the student has given written permission for the faculty member to see them.