

Name:
State all assumptions necessary to answer the questions.

CS 585 Test 2
Feb. 23, 2005

Describe the trade-offs involved between a high level acceptable use policy and a low level one. How might enforcement of a high level policy differ from a low level one?

Explain why the Chinese Wall model or the Clark Wilson model would be more appropriate than the other to serve as the underlying security model for a hospital.

Explain why this statement is true or false: A subject under the Chinese Wall model can get into a situation where they are unable to write to objects.

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Consider three subjects A, B, and C with $f(A) = \text{'Top Secret'}$, $f(B) = \text{'Classified'}$, and $f(C) = \text{'Public'}$ representing both their maximum and current clearance levels under the Bell-LaPadula model. For an object O, give O a classification level, draw an access control matrix for the system and describe what operations the subjects can perform on O.

Using the same entities as the previous question what operations would subjects be able to perform under the Biba model?

Describe a change in one of the subjects' current clearance level and indicate how that would affect that subject's access.