## **COSC1112/1114: Operating Systems Principles**

## **Tutorial 11 (week 12)**

- 1. The access-control matrix could be used to determine whether a process can switch from, say, domain A to domain B and enjoy the access privileges of domain B. Is this approach equivalent to including the access privileges of domain B in those of domain A?
- 2. Consider a computer system in which "computer games" can be played by students only between 10 P.M. and 6 A.M., by faculty members between 5 P.M. and 8 A.M., and by the computer center staff at all times. Suggest a scheme for implementing this policy efficiently.
- 3. Discuss the strengths and weaknesses of implementing an access matrix using access lists that are associated with objects.
- 4. Discuss the strengths and weaknesses of implementing an access matrix using capabilities that are associated with domains.
- 5. What is the need-to-know principle? Why is it important for a protection system to adhere to this principle?