

# Protection



## Review Questions

### Section 17.1

- 17.1 True or False? Policies determine how something will be done, mechanisms describe what will be done.

### Section 17.2

- 17.2 What principle dictates that programs and users be given just enough privileges to perform their tasks?

### Section 17.4

- 17.3 True or False? The need-to-know principle states that a process needs to know everything in order to perform its task.
- 17.4 True or False? The user mode/kernel mode paradigm is an example of domain switching.
- 17.5 True or False? In the UNIX operating system, a domain is associated with a process, not with a specific user.
- 17.6 What is the name of the bit in a UNIX system that associates each file with an owner and domain?

### Section 17.5

- 17.7 What does each row and column represent in an access matrix?

### Section 17.6

- 17.8 What is the problem when using a global table to represent an access matrix?

### Section 17.8

- 17.9 What is the benefit of using role-based access control?

**Section 17.7**

17.10 Why is revocation of access rights easy with an access list scheme?

**Section 17.10**

17.11 Provide two examples of capability-based systems.

**Section 17.12**

17.12 Give an example of a programming language that provides language-based protection.