CHAPTER 25

Domain Name System (DNS)

Solutions to Odd-Numbered Review Questions and Exercises

Review Questions

1. When the name space is large, searching a name in *hierarchical* structure (tree) is much faster that searching it in a *flat* structure (linear). The first can use a binary search; the second needs to use a sequential search.

3. *Generic domain*, *country domain*, and *inverse domain*.

5. In *recursive resolution* the client queries just one server. In *iterative resolution* the client queries more than one server.

7. A *PQDN* is a domain name that does not include all the levels between the host and the root node.

9. *Caching* reduces the search time for a name.

11. *DDNS* is needed because the many address changes makes manual updating inefficient.

Exercises

13.
   a. **FQDN**
   b. **FQDN**
   c. **PQDN**
   d. **PQDN**

15. Remembering a *name* is often easier than remembering a *number.*

17. There are *three labels* but *four levels* of hierarchy since the root is considered a level.

19. This is a *generic domain*.

21. The number of question sections and answer sections must be the same. The relationship is *one-to-one*.