
CHAPTER 25

TCP/IP Protocol Suite: Part II

25.1 REVIEW QUESTIONS

1. The lower four layers of TCP/IP correspond to the lower four OSI layers. The functions of the upper three OSI layers (application, presentation, and session) are handled by the application layer in TCP/IP.
3. The client program runs only when it needs to request a service. The server program on the other hand should run all the time because it does not know when the client may request a service.
5. Bootstrap protocol and the Dynamic Host Configuration Protocol.
7. The DNS is a protocol that can map a name to an IP address and vice versa.
9. TELNET
11. FTP establishes two connections between the hosts: one for data transfer and the other for control information exchange. The control connection remains connected during the entire interactive FTP session, whereas the data connection is opened and then closed for each file transfer.
13. SMTP is designed to support electronic mail on the Internet.
15. MIME allows non-ASCII data to be sent over SMTP.
17. SNMP monitors devices made by different manufacturers and installed on heterogeneous networks, defines data types, objects, and rules of encoding data for transmission over the network, and provides control data exchange between the client and the server.
19. WWW is a repository of information spread all over the world and linked together. HTTP is a protocol used to access data on the Web using a browser.
21. HTML is a language for creating web pages.
23. Java is a combination of a programming language, run-time environment, and a class library that supports an active document.

25.2 MULTIPLE CHOICE QUESTIONS

25. c 27. d 29. d 31. c 33. d 35. c 37. c 39. d 41. b 43. d
45. b 47. d 49. d 51. a 53. b 55. d 57. d 59. c 61. a 63. c
65. d

25.3 EXERCISES

67. De Anza uses a generic domain “edu”.
69. com
71. Some universities or colleges use country domains.
73. Yes
75. The message is returned.
77. Yes
79. It receives a file from a remote host.
81. account, append, count, delete, get, help, mkdir, open, put, pwd, rename, rmdir, send, and status
83. Yes