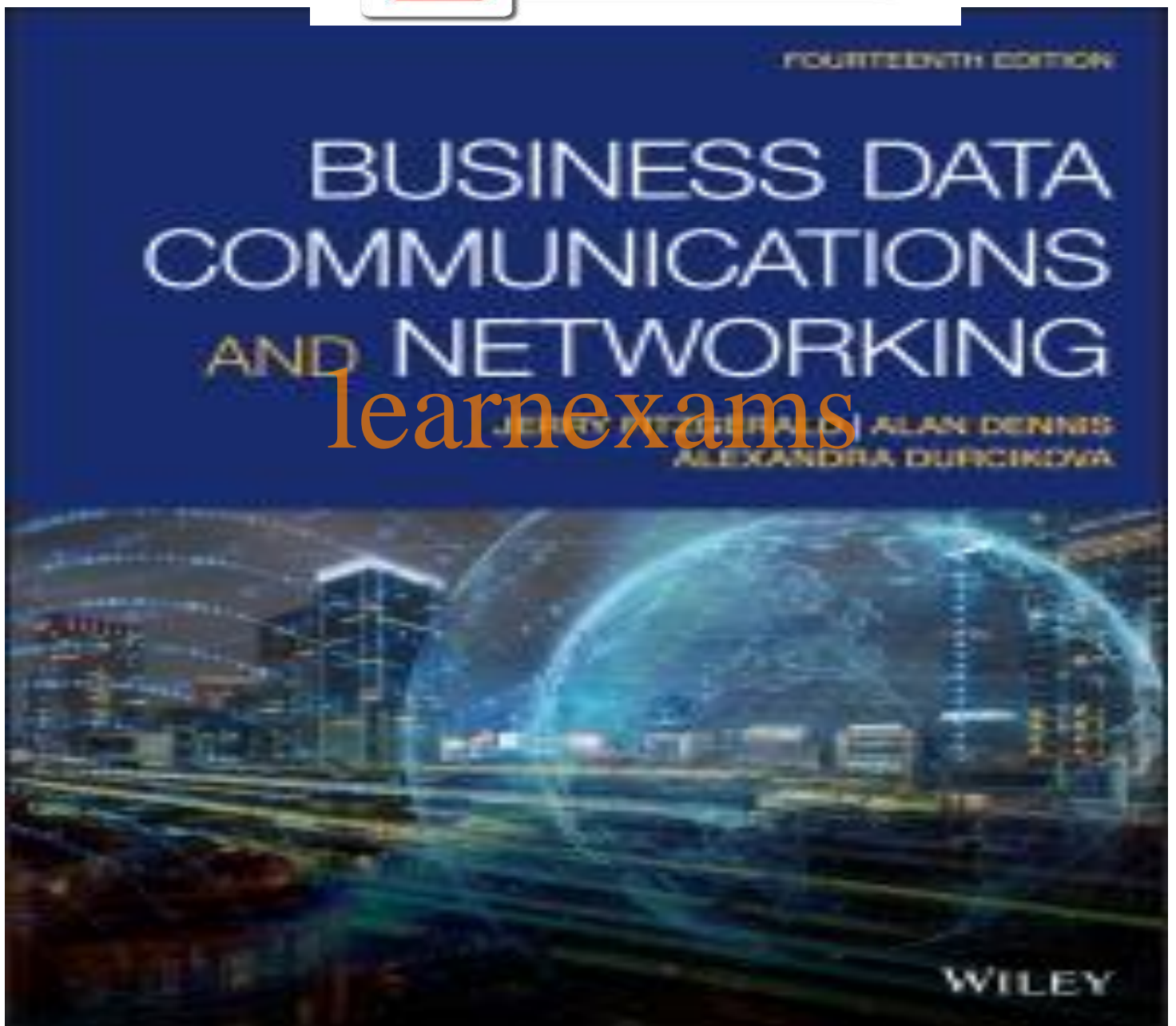


Test Bank For Business Data Communications and Networking,

14th Edition by FitzGerald, Dennis, Durcikova



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Chapter 1

Introduction to Data Communications

True-False Questions

The following are possible True/False questions for tests. The statement is given and the answer is provided in square brackets. The level of difficulty (easy, moderate, difficult) and the page number(s) relevant to the topic are also furnished.

1. According to John Chambers, CEO of Cisco (a leading networking technology company), the information age is the second Industrial Revolution.

Answer: True

Difficulty: Easy

Reference: p. 4

2. Due to recent advances in high speed communication networks, the information lag, or the time it takes for information to be disseminated around the world, has been significantly shortened.

Answer: True

Difficulty: Easy

Reference: p.4

3. One perspective of data communications and networking as stated in the textbook, examines the management of networking technologies, including security, network design, and managing the network on a day-to-day basis and long term basis.

Answer: True

Difficulty: Moderate

Reference: p. 5

4. The first electronic data communication system was the telephone developed by Alexander Graham Bell.

Answer: False

Difficulty: Easy

Reference: p. 5

5. The first transcontinental telephone service was established in the 1940s.

Answer: False

Difficulty: Easy

Reference: p. 6

6. An Inter-Exchange Carrier (IXC) provides only local telephone services to homes and businesses.

Answer: False

Difficulty: Moderate

Reference: p. 11

Answer: False

Difficulty: Easy

Reference: p. 6

7. *Common carriers include the RBOCs, IXCs, and Cable TV companies.*

Answer: True

Difficulty: Moderate

Reference: p. 7

8. *The Telecommunications Act of 1996 now permits the RBOCs to provide long distance outside the region in which they provide local telephone services.*

Answer: True

Difficulty: Moderate

Reference: p. 7

9. *The Internet was started by the U.S. Department of defense in 1969 as a network of four computers called ARPANET.*

Answer: True

Difficulty: Moderate

Reference: p. 9

10. *Telecommunications is the transmission of voice and video as well as data and implies transmitting a longer distance than in a data communication network.*

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Answer: False

Difficulty: Moderate

Reference: p. 11

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11. *A local area network (LAN) connects other LANs and BNs located in different areas to each other and to wide area networks in a span from 3 to 30 miles.*

Answer: False **Difficulty: Moderate** **Reference: p. 13**

12. *An intranet is a LAN that uses Internet technologies and is publicly available to people outside of the organization.*

Answer: False **Difficulty: Moderate** **Reference: p. 15**

13. *A car manufacturer may give access to certain portions of its network to some of its suppliers via Internet. This is an example of an Extranet.*

Answer: True **Difficulty: Moderate** **Reference: p. 15**

14. *The OSI model is the most widely used network model to develop and build networks today.*

Answer: True **Difficulty: Moderate** **Reference: p. 16**

15. *The network layer is responsible for routing messages from the source computer to the destination computer.*

Answer: True **Difficulty: Easy** **Reference: p. 17**

16. *In the OSI model, the application layer is the end user's access to the network.*

Answer: True **Difficulty: Moderate** **Reference: p. 18**

17. *The application layer is the seventh layer of the Internet model and provides the end user's access to the network.*

Answer: True **Difficulty: Moderate** **Reference: p. 18**

18. *At the transport layer in the Internet model, TCP is responsible for breaking large files received from the application layer into smaller packets and opening a connection to a server for transferring the packets.*

Answer: True **Difficulty: Difficult** **Reference: p. 17**

19. *Ethernet is an example of a network layer protocol.*

Answer: False **Difficulty: Easy** **Reference: p. 17**
Answer: False **Difficulty: Moderate** **Reference: p. 26**