

EC 511 – Fall 2003  
George Mason University

Assignment 6

Student Name: \_\_\_\_\_

Mark your answer below and return **only** this answer sheet:

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1. \_\_\_\_\_ networks form the core of the telecommunications structures today.

- a) ATM
- b) frame relay
- c) local area
- d) metropolitan area
- e) wide area

2. The first technology infrastructure that connected organizations for conducting business transactions electronically was \_\_\_\_\_.

- a) ATM
- b) EDI
- c) frame relay
- d) wide area networks
- e) metropolitan area networks

3. EDI is the precursor of what is now termed \_\_\_\_\_ electronic commerce.

- a) B2C
- b) C2C
- c) B2B
- d) G2C
- e) G2G

4. In North American, the \_\_\_\_\_ standard is used to conduct most EDI transactions.

- a) ANSI ASC X12
- b) X.25
- c) EDIFACT
- d) VAN
- e) XML

5. Necessary components that are required for EDI include

- a) special software.
- b) a telecommunications network.
- c) a legal agreement.
- d) A and B
- e) A, B, and C

6. Wide area networks provided by common carriers or information systems providers that supply not only the underlying wide area network, but also additional services is called a(n) \_\_\_\_\_.

- a) VPN
- b) extranet
- c) EDIFACT network
- d) VAN
- e) X.25

7. Based on business estimates, a paper-based transaction requires as much as \_\_\_\_\_ times the resources required by an electronic transaction.

- a) 3
- b) 5
- c) 10
- d) 15
- e) 20

8. The disadvantages of EDI includes

- a) lack of adequate network infrastructure.
- b) its cost of implementation.
- c) poor security.
- d) inflexibility
- e) interoperability issues.
- f) A, B, and C
- g) B, D, and E
- i) B, C, and D

9. \_\_\_\_\_ is beginning to replace EDI over private business-to-business networks.

- a) ANSI ASC X12
- b) X.25
- c) EDIFACT
- d) VAN
- e) XML

10. One of the major disadvantages of XML is the necessary

- a) the non-optional tags that are required.
- b) agreement of all parties regarding naming coding scheme.
- c) level of nesting of tags.
- d) specialization of XML programmers.
- e) specialized software for testing.

11. Most companies rely on renting, subscribing, or leasing \_\_\_\_\_ services from a telecommunications company or specialized information systems provider.

- a) personal area network
- b) metropolitan area network
- c) local area network
- d) wide area network
- e) intranet

12. All wide area networks fall into one of two broad categories, \_\_\_\_\_ and \_\_\_\_\_ networks.

- a) dedicated circuit, switched
- b) circuit-switched, packet-switched
- c) analog, digital
- d) dedicated circuit, virtual circuit
- e) permanent circuit, virtual circuit

13. A company that frequently has a constant flow of transactions might benefit from a \_\_\_\_\_ type of wide area network that provides permanent connections between two locations.

- a) virtual circuit
- b) permanent circuit
- c) dedicated circuit
- d) packet-switched
- e) circuit switched

14. \_\_\_\_\_ circuits are the slowest and most prone to transmission errors.

- a) analog
- b) digital
- c) leased
- d) permanent
- e) virtual

15. The highest speed digital lines that exist today in the United States are \_\_\_\_\_ circuits.

- a) T1
- b) T3
- c) T4
- d) SONET
- e) Fractional T1

16. The capability of including several communication channels on one medium is called

- a) switching
- b) duplexing
- c) multiplexing
- d) splitting
- e) broadcasting

17. \_\_\_\_\_ multiplexes 24 channels of 65Kbps on each channel.

- a) T1
- b) T3
- c) T4
- d) SONET
- e) Fractional T1

18. A connection over a public network that a company uses for internal purposes is a \_\_\_\_\_.

- a) VPN
- b) extranet
- c) EDIFACT network
- d) VAN
- e) intranet

19. A widely-accepted modern technology developed by telecommunications companies to provide a high-speed digital link over existing twisted pair cables is \_\_\_\_\_.

- a) SDH
- b) ISDN
- c) DSL
- d) DirectWay
- e) cable modem

20. The most common DSL used by home users is \_\_\_\_\_ DSL in which there are different upstream and downstream transmission rates.

- a) asynchronous
- b) synchronous
- c) symmetric
- d) asymmetric
- e) rate adaptive

21. Digital subscriber lines are targeted toward \_\_\_\_\_ users.

- a) small business
- b) medium to large business
- c) novice
- d) cable modem
- e) Internet

22. Common packet-switched networks commercially available to companies for electronic business or other telecommunications applications include

- a) SDH
- b) ISDN
- c) DSL
- d) ATM
- e) frame relay
- f) B and C
- g) D and E

23. The range of transmission speeds available for frame relay is approximately

- \_\_\_\_\_.
- a) 64 Kbps to 1.5 Mbps
  - b) 56 Kbps to 25 Mbps
  - c) 56 Kbps to 45 Mbps
  - d) 2.5 Mbps to 2.5 Gbps
  - e) 25 Mbps to 2.5 Gbps