Data Communication and Networking Basic MCQ Set – behrouz A forouzan.

In this section of Data Communication and Networking – Data Communication and Networking Basics MCQ (multiple choice) Based Short Questions and Answers ,it cover the below lists of topic, All the Multiple Choice Question and Answer (MCQs) have been compiled from the books of Data Communication and Networking by The well known author behrouz A forouzan.

1. Data communications system MCQs.
2. Simplex, half-duplex, or full-duplex MCQs.
3. Topology MCQs.
4. Local area network (LAN), Metropolitan-area network (MAN), Wide area network (WAN) MCQs.
5. Internet service providers (ISPs) MCQs.

Data Communication and Networking Basics MCQ Set – 1

1. **The _____ is the physical path over which a message travels.**

   A. Protocol
   B. Medium
   C. Signal
   D. All the above

2. The information to be communicated in a data communications system is the _____.

A. Medium
B. Protocol
C. Message
D. Transmission

3. Frequency of failure and network recovery time after a failure are measures of the _____ of a network.

A. Performance
B. Reliability
C. Security
D. Feasibility

4. An unauthorized user is a network _____ issue.

A. Performance
B. Reliability
C. Security
D. All the above

5. **Which topology requires a central controller or hub?**

   A. Mesh
   B. Star
   C. Bus
   D. Ring

6. **Which topology requires a multipoint connection?**

   A. Mesh
   B. Bus
   C. Ring
   D. Star

7. **Communication between a computer and a keyboard involves _____ transmission.**

   A. simplex
   B. half-duplex
   C. full-duplex
   D. automatic

8. **A television broadcast is an example of _____ transmission.**

   A. simplex
   B. half-duplex
   C. full-duplex
   D. automatic

9. _____ **connection provides a dedicated link between two devices**.

   A. point-to-point
   B. multipoint
   C. primary
   D. secondary

10. **In a** _____ **connection, more than two devices can share a single link**.

   A. point-to-point
   B. multipoint
   C. primary
   D. secondary

Answer key for MCQ SET- 1	
Q-1	Correct Answer: Medium
Q-2	Correct Answer: Message
Q-3	Correct Answer: Reliability
Q-4	Correct Answer: Security
Q-5	Correct Answer: Star
Q-6	Correct Answer: Bus
Q-7	Correct Answer: simplex
Q-8	Correct Answer: simplex

| Q-9 | Correct Answer: point-to-point |
| Q-10 | Correct Answer: Multipoint |

Data Communication and Networking Basics MCQ Set – 2

1. In _____ transmission, the channel capacity is shared by both communicating devices at all times.

   A. simplex
   B. half-duplex
   C. full-duplex
   D. half-simplex

2. In the original ARPANET, _____ were directly connected together.

   A. IMPs
   B. host computers
   C. networks
   D. routers

3. This was the first network.

   A. CSNET
   B. NSFNET
   C. ANSNET
   D. ARPANET

4. **Which organization has authority over interstate and international commerce in the communications field?**

   A. ITU-T
   B. IEEE
   C. FCC
   D. ISOC

5. **_____ are special-interest groups that quickly test, evaluate, and standardize new technologies**.

   A. Forums
   B. Regulatory agencies
   C. Standards organizations
   D. All of the above

6. **Which agency developed standards for physical connection interfaces and electronic signaling specifications?**

   A. EIA
   B. ITU-T
   C. ANSI
   D. ISO

7. _____ **is the protocol suite for the current Internet**.

    A. TCP/IP
    B. NCP
    C. UNIX
    D. ACM

8. _____ **refers to the structure or format of the data, meaning the order in which they are presented**.

    A. Semantics
    B. Syntax
    C. Timing
    D. All of the above

9. _____ **defines how a particular pattern to be interpreted, and what action is to be taken based on that interpretation**.

    A. Semantics
    B. Syntax
    C. Timing
    D. None of the above

10 . _____ refers to two characteristics: when data should be sent and how fast it can be sent.

A. Semantics
B. Syntax
C. Timing
D. none of the above

Answer key for MCQ SET- 2	
Q-1	Correct Answer: full-duplex
Q-2	Correct Answer: IMPs
Q-3	Correct Answer: ARPANET
Q-4	Correct Answer: FCC
Q-5	Correct Answer: Forums
Q-6	Correct Answer: EIA
Q-7	Correct Answer: TCP/IP
Q-8	Correct Answer: Syntax
Q-9	Correct Answer: Semantics
Q-10	Correct Answer: Timing

Data Communication and Networking Basics MCQ Set – 3

1. Data flow between two devices can occur in a _____ way.

A. simplex
B. half-duplex
C. full-duplex
D. all of the above

2. In a _____ connection, two and only two devices are connected by a dedicated link.

A. multipoint
B. point-to-point
C. (a) and (b)
D. none of the above

3. In a _____ connection, three or more devices share a link.

A. multipoint
B. point-to-point
C. (a) and (b)
D. none of the above

4. _____ refers to the physical or logical arrangement of a network.

    A. Data flow
    B. Mode of operation
    C. Topology
    D. None of the above

5. Devices may be arranged in a _____ topology

    A. mesh
    B. ring
    C. bus
    D. all of the above

6. A _____ is a data communication system within a building, plant, or campus, or between nearby buildings.

    A. MAN
    B. LAN
    C. WAN
    D. none of the above

7. A _____ is a data communication system spanning states, countries, or the whole world.

    A. MAN
    B. LAN
    C. WAN
    D. none of the above

8. _____ is a collection of many separate networks

    A. A WAN
    B. An internet
    C. a LAN
    D. None of the above

9. There are _____ Internet service providers.

    A. local
    B. regional
    C. national and international
    D. all of the above

10. A _____ is a set of rules that governs data communication.

    A. forum
    B. protocol
    C. standard
    D. none of the above

Answer key for MCQ SET- 3	
Q-1	Correct Answer: all of the above
Q-2	Correct Answer: point-to-point
Q-3	Correct Answer: multipoint
Q-4	Correct Answer: Topology
Q-5	Correct Answer: all of the above
Q-6	Correct Answer: LAN
Q-7	Correct Answer: WAN
Q-8	Correct Answer: An internet
Q-9	Correct Answer: all of the above
Q-10	Correct Answer: protocol