

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**.

This Data Communication and Networking – **Telephone and Cable Networks for Data Transmission** multiple choice (MCQ) based Questions and Answers PDF cover the below lists of topics.

1. DSL Multiple Choice Question and Answer.
2. ADSL technology Multiple Choice Question and Answer.
3. SDSL, HDSL, and VDSL are other DSL technologies Multiple Choice Question and Answer.
4. An HFC network,DOCSIS Multiple Choice Question and Answer.
5. Synchronous Optical Network (SONET),STS multiplexer,Regenerator ,Add/drop multiplexer Multiple Choice Question and Answer.

Practice now to sharpen your concept.

1. A local telephone network is an example of a _____ network.

- A. packet-switched
- B. circuit-switched
- C. message-switched
- D. none of the above

2. The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

- A. twisted-pair
- B. coaxial
- C. fiber-optic

D. none of the above

3. Data from a computer are _____; the local loop handles _____ signals.

- A. analog; analog
- B. analog; digital
- C. digital; digital
- D. digital; analog

4. _____ is suitable for businesses that require comparable upstream and downstream data rates.

- A. VDSL
- B. ADSL
- C. SDSL
- D. (a) and (b)

5. DMT is a modulation technique that combines elements of _____ and _____.

- A. FDM; TDM
- B. QDM; QAM
- C. FDM; QAM
- D. PSK; FSK

6. The largest portion of the bandwidth for ADSL carries _____.

- A. voice communication
- B. upstream data
- C. downstream data
- D. control data

7. _____ was designed as an alternative to the T-1 line.
- A. VDSL
 - B. ADSL
 - C. SDSL
 - D. HDSL
8. HDSL encodes data using _____.
- A. 4B/5B
 - B. 2B1Q
 - C. 1B2Q
 - D. 6B/8T
9. Another name for the cable TV office is the _____.
- A. splitter
 - B. fiber node
 - C. combiner
 - D. head end
10. A traditional cable TV network transmits signals _____.
- A. upstream
 - B. downstream
 - C. upstream and downstream
 - D. none of the above

Answer key for MCQ SET- 1	
Q-1	Correct Answer :circuit-switched
Q-2	Correct Answer :twisted-pair
Q-3	Correct Answer :digital; analog
Q-4	Correct Answer :SDSL

Q-5	Correct Answer :FDM; QAM
Q-6	Correct Answer :downstream data
Q-7	Correct Answer :HDSL
Q-8	Correct Answer :2B1Q
Q-9	Correct Answer :head end
Q-10	Correct Answer :downstream

Telephone and Cable Networks for Data Transmission multiple choice questions and answers MCQ Set-2

1. In an HFC network, the downstream data are modulated using the _____ modulation technique.

- A. PSK
- B. QAM
- C. PCM
- D. ASK

2. In an HFC network, the upstream data are modulated using the _____ modulation technique

- A. QAM
- B. QPSK
- C. PCM
- D. ASK

3. The standard for data transmission over an HFC network is called _____

- A. MCNS
- B. DOCSIS
- C. CMTS

D. ADSL

4. The original telephone network, which is referred to as the plain old telephone system (POTS), was an _____ system

- A. digital
- B. analog
- C. digital as well as analog
- D. none of the above

5. The modern telephone network is now _____

- A. digital
- B. analog
- C. digital as well as analog
- D. none of the above

6. The telephone network is made of _____ major components

- A. 2
- B. 3
- C. 4
- D. none of the above

7. The United States is divided into many _____

- A. LECs
- B. LATAs
- C. IXCs
- D. none of the above

8. The carrier that handles intra-LATA services is called a(n) _____

- A. POP
- B. IXC
- C. LEC
- D. none of the above

9. The carrier that handles inter-LATA services is called a(n)

-
- A. POP
 - B. IXC
 - C. LEC
 - D. none of the above

10. In _____ signaling, the same circuit is used for both signaling and data.

- A. in-band
- B. out-of-band
- C. mixed
- D. none of the above

Answer key for MCQ SET- 2	
Q-1	Correct Answer :QAM
Q-2	Correct Answer :QPSK
Q-3	Correct Answer :DOCSIS
Q-4	Correct Answer :analog
Q-5	Correct Answer :digital as well as analog
Q-6	Correct Answer :3
Q-7	Correct Answer :LATAs
Q-8	Correct Answer :LEC
Q-9	Correct Answer :IXC

Q-10	Correct Answer :in-band
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Telephone and Cable Networks for Data Transmission multiple choice questions and answers MCQ Set-3

1. In _____ signaling, a portion of the bandwidth is used for signaling and another portion for data.

- A. in-band
- B. out-of-band
- C. mixed
- D. none of the above

2. The protocol that is used for signaling in the telephone network is called _____

- A. POP
- B. SSS
- C. SS7
- D. none of the above

3. Telephone companies provide two types of analog services: analog _____ services and analog _____ services

- A. switched; in-band
- B. out-of-band; in-band
- C. switched; leased
- D. leased; out-of-band

4. The two most common digital services are _____ service and _____

- A. switched/56; switched/64
- B. switched/56; DDS
- C. DDS; switched 64
- D. leased; out-of-band

5. The term *modem* is a composite word that refers to the two functional entities that make up the device: a signal _____ and a signal _____

- A. modulator; demodulator
- B. demodulator; modulator
- C. modern; demo
- D. none of the above

6. Most popular modems available are based on the _____ standards

- A. V-series
- B. X-series
- C. VX-series
- D. none of the above

7. _____ technology is a set of technologies developed by the telephone companies to provide high data rate transmission

- A. ASL
- B. DSL
- C. LDS
- D. none of the above

8. The traditional cable TV system used _____ cable end to end

- A. twisted-pair

- B. coaxial
- C. fiber-optic
- D. none of the above

9. The second generation of cable networks is called a(n) _____ network

- A. HFC
- B. HCF
- C. CFH
- D. none of the above

10. The HFC network uses _____ cable

- A. twisted-pair
- B. coaxial
- C. fiber-optic
- D. a combination of (b) and (c)

Answer key for MCQ SET- 3	
Q-1	Correct Answer :out-of-band
Q-2	Correct Answer :SS7
Q-3	Correct Answer :switched; leased
Q-4	Correct Answer :switched/56; DDS
Q-5	Correct Answer :modulator; demodulator
Q-6	Correct Answer :V-series
Q-7	Correct Answer :DSL
Q-8	Correct Answer :coaxial
Q-9	Correct Answer :HFC
Q-10	Correct Answer :a combination of (b) and (c)

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