

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**.

In this section of Data Communication and Networking – **Wireless LANs** multiple choice (MCQ) based Questions and Answers PDF covers the below lists of topics.

1. Ethernet Multiple Choice Question and Answer.
2. IEEE 802.3 standard Multiple Choice Question and Answer.
3. LLC sublayer and the MAC sublayer Multiple Choice Question and Answer.
4. 10Base5 (thick Ethernet), 10Base2 (thin Ethernet), 10Base-T (twisted-pair Ethernet), and 10Base-FL (fiber link Ethernet) Multiple Choice Question and Answer.
5. Fast Ethernet Multiple Choice Question and Answer.
6. Common Fast Ethernet implementations , 100Base-TX (two pairs of twisted-pair cable), 100Base-FX (two fiber-optic cables), and 100Base-T4 (four pairs of voice-grade, or higher, twisted-pair cable) Multiple Choice Question and Answer.
7. Gigabit Ethernet Multiple Choice Question and Answer.
8. common Gigabit Ethernet implementations , 1000Base-SX (two optical fibers and a shortwave laser source), 1000Base-LX (two optical fibers and a long-wave laser source), and 1000Base-T (four twisted pairs) Multiple Choice Question and Answer.

Practice now to sharpen your concept.

1. IEEE has defined the specifications for a wireless LAN, called _____, which covers the physical and data link layers.

- A. IEEE 802.3
- B. IEEE 802.5
- C. IEEE 802.11
- D. IEEE 802.2

2. In IEEE 802.11, a ____ is made of stationary or mobile wireless stations and an optional central base station, known as the access point (AP).

- A. ESS
- B. BSS
- C. CSS
- D. none of the above

3. In IEEE 802.11, a BSS without an AP is called an _____.

- A. an ad hoc architecture
- B. an infrastructure network
- C. either (a) or (b)
- D. neither (a) nor (b)

4. In IEEE 802.11, a BSS with an AP is sometimes referred to as _____

- A. an ad hoc architecture
- B. an infrastructure network
- C. either (a) or (b)
- D. neither (a) nor (b)

5. In IEEE 802.11, communication between two stations in two different BSSs usually occurs via two _____.

- A. BSSs
- B. ESSs
- C. APs
- D. none of the above

6. In IEEE 802.11, a station with _____ mobility is either stationary (not moving) or moving only inside a BSS.

- A. no-transition
- B. BSS-transition
- C. ESS-transition
- D. none of the above

7. In IEEE 802.11, a station with _____ mobility can move from one BSS to another, but the movement is confined inside one ESS.

- A. no-transition
- B. BSS-transition
- C. ESS-transition
- D. none of the above

8. In IEEE 802.11, a station with _____ mobility can move from one ESS to another.

- A. no-transition
- B. BSS-transition
- C. ESS-transition
- D. none of the above

9. In IEEE 802.11, _____ is an optional access method that can be implemented in an infrastructure network (not in an ad hoc network)

- A. DCF
- B. PCF
- C. either (a) or (b)
- D. neither (a) nor (b)

10. In IEEE 802.11, when a frame is going from one station in a BSS to another without passing through the distribution system, the address flag is _____

- A. 00
- B. 01
- C. 10
- D. 11

Answer key for MCQ SET- 1	
Q-1	Correct Answer :IEEE 802.11
Q-2	Correct Answer :BSS
Q-3	Correct Answer :an ad hoc architecture
Q-4	Correct Answer :an infrastructure network
Q-5	Correct Answer :APs
Q-6	Correct Answer :no-transition
Q-7	Correct Answer :BSS-transition
Q-8	Correct Answer :ESS-transition
Q-9	Correct Answer :PCF
Q-10	Correct Answer :00

Wireless LANs MCQ Set-2

1. In IEEE 802.11, when a frame is coming from an AP and going to a station, the address flag is _____.

- A. 00
- B. 01
- C. 10
- D. 11

2. In IEEE 802.11, when a frame is going from a station to an AP, the address flag is _____

- A. 00
- B. 01
- C. 10
- D. 11

3. In IEEE 802.11, when a frame is going from one AP to another AP in a wireless distribution system, the address flag is _____

- A. 00
- B. 01
- C. 10
- D. 11

4. The IEEE 802.11 standard for wireless LANs defines two services: _____ and _____

- A. BSS; ASS
- B. ESS; SSS
- C. BSS; ESS
- D. BSS; DCF

5. In IEEE 802.11, the access method used in the DCF sublayer is _____

- A. ALOHA
- B. CSMA/CA
- C. CSMA/CD
- D. none of the above

6. In IEEE 802.11, the access method used in the PCF sublayer is _____

- A. contention
- B. controlled
- C. polling
- D. none of the above

7. In IEEE 802.11, the _____ is a timer used for collision avoidance

- A. NAV
- B. BSS
- C. ESS
- D. none of the above

8. In IEEE 802.11, the MAC layer frame has _____ fields

- A. four
- B. five
- C. six
- D. none of the above

9. In IEEE 802.11, the addressing mechanism can include up to _____ addresses

- A. four
- B. five
- C. six
- D. none of the above

10. The original IEEE 802.11, uses _____

- A. FHSS
- B. DSSS
- C. OFDM
- D. either (a) or (b)

Answer key for MCQ SET- 2	
Q-1	Correct Answer :01
Q-2	Correct Answer :10
Q-3	Correct Answer :11
Q-4	Correct Answer :BSS; ESS
Q-5	Correct Answer :CSMA/CA
Q-6	Correct Answer :polling
Q-7	Correct Answer :NAV
Q-8	Correct Answer :none of the above
Q-9	Correct Answer :four
Q-10	Correct Answer :either (a) or (b)

Wireless LANs MCQ Set-3

1. The IEEE 802.11a, uses _____

- A. FHSS
- B. DSSS
- C. OFDM
- D. either (a) or (b)

- 2. The IEEE 802.11b, uses _____**
A. FHSS
B. DSSS
C. OFDM
D. either (a) or (b)
- 3. The IEEE 802.11g, uses _____**
A. FHSS
B. DSSS
C. OFDM
D. either (a) or (b)
- 4. The original IEEE 802.11, has a data rate of _____Mbps.**
A. 1
B. 6
C. 11
D. 22
- 5. IEEE 802.11a, has a data rate of _____Mbps**
A. 1
B. 2
C. 6
D. none of the above
- 6. IEEE 802.11b, has a data rate of _____Mbps**
A. 1
B. 2
C. 5.5
D. none of the above

7. IEEE 802.11g, has a data rate of _____Mbps
- A. 1
 - B. 2
 - C. 11
 - D. 22
8. The IEEE 802.11 wireless LANs use _____ types of frames
- A. four
 - B. five
 - C. six
 - D. none of the above
9. Bluetooth is a _____ technology that connects devices (called gadgets) in a small area
- A. wired LAN
 - B. wireless LAN
 - C. VLAN
 - D. none of the above
10. A Bluetooth network is called a _____.
- A. piconet
 - B. scatternet
 - C. bluenet
 - D. none of the above

Answer key for MCQ SET- 3	
Q-1	Correct Answer :OFDM
Q-2	Correct Answer :DSSS

Q-3	Correct Answer :OFDM
Q-4	Correct Answer :1
Q-5	Correct Answer :6
Q-6	Correct Answer :5.5
Q-7	Correct Answer :22
Q-8	Correct Answer :none of the above
Q-9	Correct Answer :wireless LAN
Q-10	Correct Answer :piconet

Wireless LANs MCQ Set-4

1. In Bluetooth, multiple _____ form a network called a

- _____
- A. scatternet; piconets
 - B. piconets; scatternet
 - C. piconets; bluenet
 - D. bluenet; scatternet

2. A Bluetooth network consists of _____ primary device(s) and up to _____ secondary devices.

- A. one; five
- B. five; three
- C. two; six
- D. one; seven

3. The RTS and CTS frames in CSMA/CA _____ solve the hidden station problem. The RTS and CTS frames in CSMA/CA _____ solve the exposed station problem.

- A. can; cannot
- B. cannot; can

- C. can; can
- D. cannot; cannot

4. In Bluetooth, the current data rate is ____Mbps

- A. 2
- B. 5
- C. 11
- D. none of the above

5. In Bluetooth, the _____ layer is roughly equivalent to the physical layer of the Internet model.

- A. radio
- B. baseband
- C. L2CAP
- D. none of the above

6. In Bluetooth, the _____ layer is roughly equivalent to the MAC sublayer in LANs.

- A. radio
- B. baseband
- C. L2CAP
- D. none of the above

7. In Bluetooth, the L2CAP sublayer, is roughly equivalent to the LLC sublayer in LANs

- A. radio
- B. baseband
- C. L2CAP
- D. none of the above

8. The access method in Bluetooth is _____

- A. FDMA
- B. TDD-TDMA
- C. CDMA
- D. none of the above

9. In Bluetooth, the _____ link is used when avoiding latency (delay in data delivery) is more important than integrity (error-free delivery).

- A. SCO
- B. ACL
- C. ACO
- D. SCL

10. In Bluetooth, the _____ link is used when data integrity is more important than avoiding latency.

- A. SCO
- B. ACL
- C. ACO
- D. SCL

Answer key for MCQ SET- 4	
Q-1	Correct Answer :piconets: scatternet
Q-2	Correct Answer :one; seven
Q-3	Correct Answer :can; cannot
Q-4	Correct Answer :none of the above
Q-5	Correct Answer :radio
Q-6	Correct Answer :baseband
Q-7	Correct Answer :L2CAP
Q-8	Correct Answer :TDD-TDMA
Q-9	Correct Answer :SCO

Q-10	Correct Answer :ACL
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