

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 – **Wireless WANs – Cellular Telephone and Satellite Networks** multiple choice Questions and Answers (MCQ) PDF covers the below lists of topics.

1. Repeater Multiple Choice Question and Answer.
2. Bridge Multiple Choice Question and Answer.
3. Backbone LAN Multiple Choice Question and Answer.
4. Virtual local area network (VLAN) Multiple Choice Question and Answer.

**Practice now to sharpen your concept.**

**1. AMPS operates in the ISM \_\_\_\_\_ band**

- A. 800-MHz
- B. 900-MHz
- C. 1800-MHz
- D. none of the above

**2. \_\_\_\_\_ is a first-generation cellular phone system**

- A. AMPS
- B. D-AMPS
- C. GSM
- D. none of the above

**3. \_\_\_\_\_ is a second-generation cellular phone system.**

- A. AMPS
- B. D-AMPS

- C. GSM
- D. none of the above

4. \_\_\_\_\_ is a digital version of AMPS

- A. GSM
- B. D-AMPS
- C. IS-95
- D. none of the above

5. \_\_\_\_\_ is a second-generation cellular phone system used in Europe.

- A. GSM
- B. D-AMPS
- C. IS-95
- D. none of the above

6. \_\_\_\_\_ is a second-generation cellular phone system based on CDMA and DSSS.

- A. GSM
- B. D-AMPS
- C. IS-95
- D. none of the above

7. The \_\_\_\_\_ cellular phone system will provide universal personal communication

- A. first-generation
- B. second-generation
- C. third-generation
- D. none of the above

**8. In a \_\_\_\_\_ handoff, a mobile station only communicates with one base station**

- A. hard
- B. soft
- C. medium
- D. none of the above

**9. In a \_\_\_\_\_ handoff, a mobile station can communicate with two base stations at the same time**

- A. hard
- B. soft
- C. medium
- D. none of the above

**10. \_\_\_\_\_ is an analog cellular phone system using FDMA.**

- A. AMPS
- B. D-AMPS
- C. GSM
- D. none of the above

<b>Answer key for MCQ SET- 1</b>	
<b>Q-1</b>	Correct Answer :800-MHz
<b>Q-2</b>	Correct Answer :AMPS
<b>Q-3</b>	Correct Answer :D-AMPS
<b>Q-4</b>	Correct Answer :D-AMPS
<b>Q-5</b>	Correct Answer :GSM
<b>Q-6</b>	Correct Answer :IS-95
<b>Q-7</b>	Correct Answer :third-generation
<b>Q-8</b>	Correct Answer :hard
<b>Q-9</b>	Correct Answer :soft

Q-10	Correct Answer :AMPS
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**Wireless WANs – Cellular Telephone and Satellite Networks MCQ**  
**Set-2**

- 1. In AMPS, each band is divided into \_\_\_\_\_ channels**
  - A. 800
  - B. 900
  - C. 1000
  - D. none of the above
  
- 2. AMPS has a frequency reuse factor of \_\_\_\_\_**
  - A. 1
  - B. 3
  - C. 5
  - D. 7
  
- 3. AMPS uses \_\_\_\_\_ to divide each 25-MHz band into channels**
  - A. FDMA
  - B. TDMA
  - C. CDMA
  - D. none of the above
  
- 4. D-AMPS uses \_\_\_\_\_ to divide each 25-MHz band into channels**
  - A. FDMA
  - B. TDMA
  - C. CDMA
  - D. both (a) and (b)

- 5. GSM allows a reuse factor of \_\_\_\_\_**
- A. 1
  - B. 3
  - C. 5
  - D. 7
- 6. GSM is a digital cellular phone system using \_\_\_\_\_**
- A. FDMA
  - B. TDMA
  - C. CDMA
  - D. both (a) and (b)
- 7. IS-95 is based on \_\_\_\_\_**
- A. FDMA
  - B. CDMA
  - C. DSSS
  - D. all of the above
- 8. IS-95 uses the ISM \_\_\_\_\_ band**
- A. 800-MHz
  - B. 900-MHz
  - C. 1900-MHz
  - D. either (a) or (c)
- 9. IS-95 uses the \_\_\_\_\_ satellite system for synchronization**
- A. GPS
  - B. Teledesic
  - C. Iridium

D. none of the above

**10. In an IS-95 system, the frequency-reuse factor is normally**

- A. 1  
B. 3  
C. 5  
D. 7

<b>Answer key for MCQ SET- 2</b>	
Q-1	Correct Answer :none of the above
Q-2	Correct Answer :7
Q-3	Correct Answer :FDMA
Q-4	Correct Answer :both (a) and (b)
Q-5	Correct Answer :3
Q-6	Correct Answer :both (a) and (b)
Q-7	Correct Answer :all of the above
Q-8	Correct Answer :either (a) or (c)
Q-9	Correct Answer :GPS
Q-10	Correct Answer :1

**Wireless WANs – Cellular Telephone and Satellite Networks MCQ**  
**Set-3**

**1. In the third generation of cellular phones, \_\_\_\_\_ uses W-CDMA.**

- A. IMT-DS  
B. IMT-MC

- C. IMT-TC
- D. IMT-SC

**2. In the third generation of cellular phones, \_\_\_\_\_ uses CDMA2000**

- A. IMT-DS
- B. IMT-MC
- C. IMT-TC
- D. IMT-SC

**3. In the third generation of cellular phones, \_\_\_\_\_ uses a combination of W-CDMA and TDMA.**

- A. IMT-DS
- B. IMT-MC
- C. IMT-TC
- D. IMT-SC

**4. In the third generation of cellular phones, \_\_\_\_\_ uses TDMA.**

- A. IMT-DS
- B. IMT-MC
- C. IMT-TC
- D. IMT-SC

**5. The period of a satellite, the time required for a satellite to make a complete trip around the Earth, is determined by \_\_\_\_\_ law**

- A. Kepler's
- B. Newton's
- C. Ohm's
- D. none of the above

**6. The signal from a satellite is normally aimed at a specific area called the \_\_\_\_\_**

- A. path
- B. effect
- C. footprint
- D. none of the above

**7. There is (are) \_\_\_\_\_ orbit(s) for a GEO satellite**

- A. one
- B. two
- C. many
- D. none of the above

**8. MEO satellites are located at altitudes between km.**

- A. 3000 and 5000
- B. 5000 and 10,000
- C. 5000 and 15,000
- D. none of the above

**9. LEO satellites are normally below an altitude of \_\_\_\_\_ km.**

- A. 1000
- B. 2000
- C. 3000
- D. none of the above

**10. \_\_\_\_\_ is based on a principle called trilateration**

- A. GPS
- B. Teledesic



- C. Iridium
- D. none of the above

<b>Answer key for MCQ SET- 3</b>	
Q-1	Correct Answer :IMT-DS
Q-2	Correct Answer :IMT-MC
Q-3	Correct Answer :IMT-TC
Q-4	Correct Answer :IMT-SC
Q-5	Correct Answer :Kepler's
Q-6	Correct Answer :footprint
Q-7	Correct Answer :one
Q-8	Correct Answer :5000 and 15,000
Q-9	Correct Answer :2000
Q-10	Correct Answer :GPS

**Wireless WANs – Cellular Telephone and Satellite Networks MCQ**  
**Set-4**

1. Low-Earth-orbit (LEO) satellites have \_\_\_\_\_ orbits.
  - A. equatorial
  - B. polar
  - C. inclined
  - D. none of the above
  
2. A GEO is at the \_\_\_\_\_ orbit and revolves in phase with Earth.
  - A. equatorial
  - B. polar
  - C. inclined

D. none of the above

**3. GPS satellites are \_\_\_\_\_ satellites**

- A. GEO
- B. MEO
- C. LEO
- D. none of the above

**4. \_\_\_\_\_ satellites provide time and location information for vehicles and ships.**

- A. GPS
- B. Iridium
- C. Teledesic
- D. none of the above

**5. Iridium satellites are \_\_\_\_\_ satellites**

- A. GEO
- B. MEO
- C. LEO
- D. none of the above

**6. \_\_\_\_\_ satellites can provide direct universal voice and data communications for handheld terminals**

- A. GPS
- B. Iridium
- C. Teledesic
- D. none of the above

**7. Teledesic satellites are \_\_\_\_\_ satellites**

- A. GEO

- B. MEO
- C. LEO
- D. none of the above

8. \_\_\_\_\_ satellites will provide universal broadband Internet access.

- A. GPS
- B. Iridium
- C. Teledesic
- D. none of the above

Answer key for MCQ SET- 4	
Q-1	Correct Answer :polar
Q-2	Correct Answer :equatorial
Q-3	Correct Answer :MEO
Q-4	Correct Answer :GPS
Q-5	Correct Answer :LEO
Q-6	Correct Answer :Iridium
Q-7	Correct Answer :LEO
Q-8	Correct Answer :Teledesic
Q-9	
Q-10	