

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 – **Analog Transmission** multiple choice Based Questions and Answers PDF cover the below lists of topic.

1. Digital To Analog modulation multiple choice Based Questions and Answers
2. Amplitude shift keying (ASK) multiple choice Based Questions and Answers.
3. Frequency shift keying (FSK) multiple choice Based Questions and Answers.
4. Phase shift keying (PSK) multiple choice Based Questions and Answers.
5. Quadrature amplitude modulation (QAM) multiple choice Based Questions and Answers.
6. Analog to analog modulation multiple choice Based Questions and Answers.
7. Amplitude modulation (AM) multiple choice Based Questions and Answers.
8. Frequency modulation (FM) multiple choice Based Questions and Answers.
9. Phase modulation (PM) multiple choice Based Questions .and Answers.

Analog Transmission multiple choice Questions and Answers **MCQ Set-1**

1. ASK, PSK, FSK, and QAM are examples of _____ conversion.

- A. digital-to-digital
- B. digital-to-analog
- C. analog-to-analog

D. analog-to-digital

2. AM and FM are examples of _____ conversion.

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

3. In QAM, both _____ of a carrier frequency are varied.

- A. frequency and amplitude
- B. phase and frequency
- C. amplitude and phase
- D. none of the above

4. If the baud rate is 400 for a QPSK signal, the bit rate is _____ bps.

- A. 100
- B. 400
- C. 800
- D. 1600

5. If the bit rate for an ASK signal is 1200 bps, the baud rate is _____.

- A. 300
- B. 400
- C. 600
- D. 1200

6. If the bit rate for an FSK signal is 1200 bps, the baud rate is

_____.

- A. 300
- B. 400
- C. 600
- D. 1200

7. If the bit rate for a 16-QAM signal is 4000 bps, what is the baud rate?

- A. 300
- B. 400
- C. 1000
- D. 1200

8. If the baud rate for a 64-QAM signal is 2000, what is the bit rate?

- A. 300
- B. 400
- C. 1000
- D. 12000

9. Given an AM radio signal with a bandwidth of 10 KHz and the highest-frequency component at 705 KHz, what is the frequency of the carrier signal?

- A. 700 KHz
- B. 705 KHz
- C. 710 KHz
- D. Cannot be determined from given information

10. _____ conversion is the process of changing one of the

characteristics of an analog signal based on the information in the digital data.

- A. Digital-to-analog
- B. Analog-to-analog
- C. Analog-to-digital
- D. Digital-to-digital

Answer key for MCQ SET- 1	
Q-1	Correct Answer :digital-to-analog
Q-2	Correct Answer :analog-to-analog
Q-3	Correct Answer :amplitude and phase
Q-4	Correct Answer :800
Q-5	Correct Answer :1200
Q-6	Correct Answer :1200
Q-7	Correct Answer :1000
Q-8	Correct Answer :12000
Q-9	Correct Answer :700 KHz
Q-10	Correct Answer :Digital-to-analog

Analog Transmission multiple choice Questions and Answers
MCQ Set-2

1. Which of the following is not a digital-to-analog conversion?

- A. ASK
- B. PSK
- C. FSK
- D. AM

2. In _____, the amplitude of the carrier signal is varied to create signal elements. Both frequency and phase remain constant.

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

3. In _____, the frequency of the carrier signal is varied to represent data. Both peak amplitude and phase remain constant.

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

4. In _____, the phase of the carrier is varied to represent two or more different signal elements. Both peak amplitude and frequency remain constant.

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

5. A constellation diagram shows us the _____ of a signal element, particularly when we are using two carriers (one in-phase and one quadrature).

- A. amplitude and phase
- B. amplitude and frequency
- C. frequency and phase
- D. none of the above

6. Quadrature amplitude modulation (QAM) is a combination of _____

- A. ASK and FSK
- B. ASK and PSK
- C. PSK and FSK
- D. none of the above

7. _____ uses two carriers, one in-phase and the other quadrature

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

8. _____ conversion is the representation of analog information by an analog signal.

- A. Digital-to-analog
- B. Analog-to-analog
- C. Analog-to-digital
- D. Digital-to-digital

9. Analog-to-analog conversion is needed if the available bandwidth is _____

- A. low-pass
- B. band-pass
- C. either (a) or (b)
- D. neither (a) nor (b)

10. Which of the following is not an analog-to-analog conversion?

- A. AM
- B. PM
- C. FM
- D. QAM

Answer key for MCQ SET- 2	
Q-1	Correct Answer :AM
Q-2	Correct Answer :ASK
Q-3	Correct Answer :FSK
Q-4	Correct Answer :PSK
Q-5	Correct Answer :amplitude and phase
Q-6	Correct Answer :ASK and PSK
Q-7	Correct Answer :QAM
Q-8	Correct Answer :Analog-to-analog
Q-9	Correct Answer :band-pass
Q-10	Correct Answer :QAM

Analog Transmission multiple choice Questions and Answers
MCQ Set-3

1. In _____ transmission, the carrier signal is modulated so that its amplitude varies with the changing amplitudes of the modulating signal.

- A. AM
- B. PM
- C. FM
- D. none of the above

2. In _____ transmission, the frequency of the carrier signal is modulated to follow the changing voltage level (amplitude) of the modulating signal. The peak amplitude and phase of the carrier signal remain constant, but as the amplitude of the information signal changes, the frequency of the carrier changes correspondingly.

- A. AM
- B. PM
- C. FM
- D. none of the above

3. In _____ transmission, the phase of the carrier signal is modulated to follow the changing voltage level (amplitude) of the modulating signal.

- A. AM
- B. PM
- C. FM
- D. none of the above

4. In _____, the peak amplitude of one signal level is 0; the other is the same as the amplitude of the carrier frequency

- A. PSK
- B. OOK
- C. FSK
- D. none of the above

5. How many carrier frequencies are used in BASK?

- A. 2
- B. 1
- C. 0
- D. none of the above

6. How many carrier frequencies are used in BFSK?

- A. 2
- B. 1
- C. 0
- D. none of the above

7. How many carrier frequencies are used in BPSK?

- A. 2
- B. 1
- C. 0
- D. none of the above

8. How many carrier frequencies are used in QPSK?

2

- A. 1
- B. 0
- C. none of the above

9. The constellation diagram of BASK has _____ dots

- A. 2
- B. 1
- C. 0
- D. none of the above

10. The constellation diagram of BPSK has _____ dots

- A. 2
- B. 1
- C. 0
- D. none of the above

Answer key for MCQ SET- 3	
Q-1	Correct Answer :AM
Q-2	Correct Answer :FM
Q-3	Correct Answer :PM
Q-4	Correct Answer :OOK
Q-5	Correct Answer :1
Q-6	Correct Answer :2
Q-7	Correct Answer :1
Q-8	Correct Answer :2
Q-9	Correct Answer :2
Q-10	Correct Answer :2