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 – **Transmission Media** Multiple choice Questions and Answers (MCQ) PDF covers the below lists of topics.

- 1. Transmission media Multiple Choice Question and Answer.
- 2. Twisted pair cable, coaxial cable, and optical fiber cable Multiple Choice Question and Answer.
- 3. Multimode step-index propagation Multiple Choice Question and Answer.
- 4. Multimode graded-index propagation Multiple Choice Question and Answer.
- Unguided media ground propagation, sky propagation, and line-of-sight propagation Multiple Choice Question and Answer.
- 6. Radio waves, Microwaves, or Infrared waves Multiple Choice Question and Answer

# <u>Transmission Media multiple choice questions and answers MCQ</u> Set-1

••	. Transmission media are usually categorized as A. fixed or unfixed	
	B. guided or unguided	
	C. determinate or indeterminate	
	D. metallic or nonmetallic	



2. Transmission media lie below the layer.

A. physical

- B. network C. transport D. application 3. \_\_\_\_\_ cable consists of an inner copper core and a second conducting outer sheath. A. Twisted-pair B. Coaxial C. Fiber-optic D. Shielded twisted-pair 4. In fiber optics, the signal is \_\_\_\_\_ waves. A. light B. radio C. infrared D. very low-frequency
- 5. Which of the following primarily uses guided media?
  - A. cellular telephone system
  - B. local telephone system
  - C. satellite communications
  - D. radio broadcasting
- 6. Which of the following is not a guided medium?
  - A. twisted-pair cable
  - B. coaxial cable
  - C. fiber-optic cable
  - D. atmosphere



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		najor factor that makes coaxi noise than twisted-pair cable	
•	er cond		
	meter o		
	er cond		
D.INS	ulating r	naterial	
8. In an	optical	fiber, the inner core is	the cladding.
	nser tha		
	s dense		
	other na	lensity as me for	
B. and	ouror ria		
		re of an optical fiber is	in
compos		4:-	
_	ss or pla	ASTIC	
B. cop	netallic		
D. liqu			
		nm of light travels through me ties, if the angle of incidence	
		le, occurs.	io groator triari
	ection	· <del></del>	
	action		
	idence		
D. crit	icism		
		Answer key for MCQ \$	SFT_ 1
	Q-1	Correct Answer :guided or ung	
			•



Q-2	Correct Answer :physical
Q-3	Correct Answer :Coaxial
Q-4	Correct Answer :light
Q-5	Correct Answer :local telephone system
Q-6	Correct Answer :atmosphere
Q-7	Correct Answer :outer conductor
Q-8	Correct Answer :denser than
Q-9	Correct Answer :glass or plastic
Q-10	Correct Answer :reflection

# <u>Transmission Media multiple choice questions and answers MCQ</u> <u>Set-2</u>

- 1. When the angle of incidence is \_\_\_\_\_ the critical angle, the light beam bends along the interface.
  - A. more than
  - B. less than
  - C. equal to
  - D. none of the above



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2.	Signals with a frequency below 2 MHz use
pr	A. ground B. sky C. line-of-sight D. none of the above
3.	Signals with a frequency between 2 MHz and 30 MHz use propagation  A. ground  B. sky  C. line-of-sight  D. none of the above
4.	Signals with a frequency above 30 MHz usepropagation A. ground B. sky C. line-of-sight D. none of the above
5.	A parabolic dish antenna is a(n) antenna.  A. omnidirectional  B. bidirectional  C. unidirectional  D. horn
	A(n) medium provides a physical conduit from one evice to another.  A. guided  B. unguided

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	C. either (a) or (b) D. none of the above
	cable consists of two insulated copper wires visted together. A. Coaxial B. Fiber-optic C. Twisted-pair D. none of the above
8.	cable is used for voice and data communications.  A. Coaxial B. Fiber-optic C. Twisted-pair D. none of the above
9.	consists of a central conductor and a shield.  A. Coaxial B. Fiber-optic C. Twisted-pair D. none of the above
	D cable can carry signals of higher frequency ranges an cable.  A. Twisted-pair; fiber-optic  B. Coaxial; fiber-optic  C. Coaxial; twisted-pair  D. none of the above



	Answer key for MCQ SET- 2		
Q-1	Correct Answer :equal to		
Q-2	Correct Answer :ground		
Q-3	Correct Answer :sky		
Q-4	Correct Answer :line-of-sight		
Q-5	Correct Answer :unidirectional		
Q-6	Correct Answer :unguided		
Q-7	Correct Answer :Twisted-pair		
Q-8	Correct Answer :Twisted-pair		
Q-9	Correct Answer :Coaxial		
Q-10	Correct Answer :Coaxial; twisted-pair		

## <u>Transmission Media multiple choice questions and answers MCQ</u> Set-3

- 1. \_\_\_\_\_ cables are composed of a glass or plastic inner core surrounded by cladding, all encased in an outside jacket.
  - A. Coaxial
  - B. Fiber-optic
  - C. Twisted-pair
  - D. none of the above
- 2. \_\_\_\_ cables carry data signals in the form of light.
  - A. Coaxial
  - B. Fiber-optic
  - C. Twisted-pair



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D. none of the above

in	In a fiber-optic cable, the signal is propagated along the ner core by A. reflection B. refraction C. modulation D. none of the above
	media transport electromagnetic waves without e use of a physical conductor
	A. Guided B. Unguided
	C. Either (a) or (b)
	D. None of the above
5.	Radio waves are
	A. omnidirectional
	B. unidirectional C. bidirectional
	D. none of the above
6.	Microwaves are
•	A. omnidirectional
	B. unidirectional
	C. bidirectional D. none of the above
7.	are used for cellular phone, satellite, and wireless



- A. Radio waves
- B. Microwaves
- C. Infrared waves
- D. none of the above
- 8. \_\_\_\_\_ are used for short-range communications such as those between a PC and a peripheral device.
  - A. Radio waves
  - B. Microwaves
  - C. Infrared waves
  - D. none of the above

	Answer key for MCQ SET- 3	
Q-1	Correct Answer :Fiber-optic	
Q-2	Correct Answer :Fiber-optic	
Q-3	Correct Answer :reflection	
Q-4	Correct Answer :Unguided	
Q-5	Correct Answer :omnidirectional	
Q-6	Correct Answer :unidirectional	
Q-7	Correct Answer : Microwaves	
Q-8	Correct Answer :Infrared waves	
Q-9		
Q-10		

