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1. A company needs to extend the LAN to six separate buildings. To limit the amount of signal attenuation on the LAN media, what type of media would be the best to use between the buildings?
 - a.air (wireless)
 - b.coaxial cable
 - * c.fiber
 - d.shielded twisted pair
 - e.unshielded twisted pair
2. A small company is experiencing difficulties on its LAN. After performing some tests, a technician has determined that the copper media supporting the LAN is experiencing abnormal attenuation. What are two possible causes of the problem? (Choose two.)
 - * a.defective connectors
 - * b.excessively long cable lengths
 - c.use of higher grade cabling
 - d.low frequency signals used in the media
 - e.network cable runs isolated from other cables
3. What is a cause of crosstalk in UTP cable?
 - a.cable pairs that are shorted
 - b.cable pairs crossed during termination
 - c.cabling runs installed in separate conduit
 - * d.cable pairs that are untwisted because of poor termination of the cable
4. Which of the following describes frequency?
 - a.length of each wave
 - b.height of each wave
 - * c.number of cycles each second
 - d.amount of time between each wave
5. How are binary ones and zeros represented in fiber optic installations? (Choose two.)
 - a.+5 volts/-5 volts
 - b.0 volts/5 volts
 - * c.light/no light
 - d.high to low electrical transition
 - e.low to high electrical transition
 - * f.increasing/decreasing light intensity
6. What factors need to be considered to limit the amount of signal attenuation in Ethernet cable runs? (Choose two.)
 - a.type of users
 - b.number of users
 - * c.length of cable
 - d.type of electrical equipment
 - * e.installation of connectors on the cable
7. Which of the following are detected by the wire map test? (Choose three.)
 - a.near-end crosstalk (NEXT)
 - * b.opens
 - c.propagation delay
 - d.return loss
 - * e.reversed-pair faults
 - * f.short circuits
8. To ensure reliable LAN communications, what should a technician be looking for when attaching connectors to the ends of UTP cable?
 - a.that the white-orange/orange pair is attached first
 - * b.that the wire pairs remain twisted as much as possible

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- c.that one end of the shield is properly ground but not the other
- d.that 50 ohm termination resistors are on both ends

9. What conditions are described when transmission signals from one wire pair affects another wire pair? (Choose two.)

- * a.noise
- b.resistance mismatch
- c.jitter
- * d.crosstalk
- e.attenuation

10. What is expected when crosstalk is present in networks with higher transmission frequencies? (Choose two.)

- a.jitter
- * b.increase in crosstalk
- c.higher signal attenuation
- d.increases in cancellation effect
- * e.destruction of more of the data signal