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## Networking Essentials, 4e (Beasley) Chapter 2 Physical Layer Cabling: Twisted Pair

- 1) The nominal velocity of propagation for UTP
- A) Should be close to 1
- B) Should be close to 100m
- C) Is the speed of light
- D) Should be some percentage of the speed of light

Answer: D

- 2) The proper alignment of the transmit and receive pairs in a CAT5/5e/6 UTP cable requires what?
- A) The transmit (+) and (-) signals connected to the receivers (+) and (-) signals, respectively.
- B) The transmit (+) and (-) signals connected to the receivers (-) and (+) signals, respectively.
- C) The transmit (-) and (+) signals connected to the receivers (-) and (+) signals, respectively.
- D) None of these answers are correct.

Answer: B

- 3) In the balanced mode of operation for UTP
- A) The (+) side connects to ground.
- B) The (-) side connects to ground.
- C) Neither wire in the wire pairs connects to ground.
- D) The balanced mode of operation for UTP is only used with STP cable installations.
- E) The balanced mode of operation for UTP is only used in high EMI environments.

Answer: C

- 4) CAT 6 UTP is recommended for use in what? (Select all that apply.)
- A) The campus network backbone cabling
- B) Only the equipment room
- C) The horizontal cabling for a LAN
- D) Is not recommended in LANs
- E) The work area

Answer: C, E

- 5) "Interconnected LANs within a limited geographic area" defines which of the following?
- A) Campus Network
- B) Wide Area Network
- C) Metropolitan Area Network
- D) None of these answers are correct.

Answer: A

- 6) "An Ethernet system operating at 100Mbps" defines which of the following?
- A) AUI Ethernet
- B) Link Ethernet
- C) Gigabit Ethernet
- D) Fast Ethernet
- E) None of these answers are correct.

Answer: D

- 7) "Another term for network congestion" defines which of the following?
- A) Bottled
- B) Bottlenecking
- C) Constricted
- D) Constricting
- E) None of these answers are correct.

Answer: B

- 8) "Where the cable connects to a jack or a patch panel" defines which of the following?
- A) TCO
- B) Closet
- C) Termination
- D) None of these answers are correct.

Answer: C

- 9) "A graphical or text description of the wire connections from pin to pin" defines which of the following?
- A) Color-map
- B) Continuity map
- C) Wire-map
- D) Connectivity map
- E) None of these answers are correct.

Answer: C

- 10) "Consists of all the link elements from the wall plate to the switch" defines which of the following?
- A) Complete Link
- B) Full Channel
- C) Full Link
- D) Link
- E) None of these answers are correct.

Answer: B

- 11) The main cross-connect (MC) connects to which of the following? (Choose two.)
- A) Telco
- B) ISP
- C) Floor distributors
- D) Work station outlet

Answer: A, B

12) What is another name for an RJ-45 connector? A) 8C8P B) 8W8T C) 8P8C D) 8P8T Answer: C
13) RG-6 and RG-59 cables are used in what type of systems? (Choose two.) A) Satellite B) Cable television C) DSL D) Fiber Answer: A, B
14) What type of terminations are found with RG-6 and RG-59 cables? (Choose two.) A) G-type B) RJ-10 C) F-type D) BNC Answer: C, D
15) What are two types of punch-down blocks that might be found in an older system within the telecommunications closet? (Choose two.)  A) 66 block B) 100 block C) 110 block D) 200 block Answer: A, C
<ul><li>16) The RJ-48 connector is commonly used with what type of network connections?</li><li>A) Ethernet</li><li>B) Satellite</li><li>C) Cable</li><li>D) T1 lines</li><li>Answer: D</li></ul>
17) The RJ-48 connector uses what type of cabling? A) Twisted pair B) Wireless C) MMF D) SMF Answer: A

- 18) What are two potential problems if you create a split pair connection when you are working with a straight-through patch cable? (Choose two.)
- A) Interference
- B) Attenuation
- C) Crosstalk
- D) Short

Answer: A, C