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chapter 5 vocabulary

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| **Across**  **4.** A mechanism that regulates the transmission of data onto a network medium.  **5.** (Base 16) A number system using the digits 0 through 9, with their usual meaning, plus the letters A through F to represent hexadec- imal digits with values of 10 to 15.  **6.** protocol data unit (PDUs) A generic term from OSI that refers to the data, headers, and trail- ers about which a particular networking layer is concerned.  **8.** A network of end devices that behave as if they are connected to the same network segment, even though they might be physically located on different segments of a LAN.  **9.** Normally, a relatively general term that gateway refers to different kinds of networking devices.  **11.** The next gateway to which a Layer 3 packet is delivered, used to reach its destination, nibble boundary A nibble is 4 bits or one hexadecimal digit.  **13.** The powering of network devices over Ethernet cable. POE is defined by two different standards: IEEE 802.3af and Cisco. Asymmetric switching  **14.** On a switch, a table that lists all known MAC addresses, and the bridge/ switch port out that the bridge/switch should Ise to forward frames sent to each MAC address.  **16.** Logical storage in a host's RAM to store ARP entries. See also ARP cache.  **17.** consumes bandwidth and reduces the amount of application data that can be transported across the network.  **19.** Any frame less than 64 bytes in length.  **20.** A method of networking that is a non-deterministic method. | **Down**  **1.** A switching technique used to allow for different data rates on different ports.  **2.** Media-access mechanism that requires a node wishing to transmit to listen for a carrier signal before trying to send.  **3.** Mediaaccess mechanism wherein devices ready to transmit data first check the channel for a carrier.  **7.** Logical interface on a Cisco device associated with a bundle of routed ports in order to aggregate bandwidth.  **10.** Two types of settings used for communications on networks: half duplex and full duplex.  **12.** A type of hash function (one-way encryption) that is used to pro- duce a small, fixed-size checksum of a block of data, such as a packet or a computer file.  **15.** A person or program that masquerades as another to gain access to data and the network.  **18.** The first half of a MAC address. |