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**CIS202 Unit 1 Lab Report**

1. What is the primary benefit of running Packet Tracer in Simulation mode? (Lab 1.2.4.4)
   * ***The major benefit of running simulation mode is to be able to slow down the network connection, monitor the activity taking place and being able to check packets moving inbound and outbound between network nodes and endpoints. Allowing one to analyze the network in detail***
2. List the major section headings you found under the Inbound PDU Details and Outbound PDU Details tabs. (Lab 1.2.4.4)
   * ***Major Header information found in the Inbound PDU Details, include Frame Control Duration, Source Mac Address, Source IP address, Target Destination. Major Heading information found in the Outbound packet includes Ethernet 2 header information, Arp hardware address and Packet Source IP Address. Depending on the hardware medium used the communication information may be different: depending on wireless or ethernet from where the connection is made from and where the information is going.***
3. What is used to display the most basic form of help within the Cisco IOS? (Lab 2.1.4.8)
   * ***The most basic form of help within the cisco IOS is the ‘?’ command text or some basic show configuration commands.***
4. What command is required within the Cisco IOS in order to enter privileged EXEC mode? (Lab 2.1.4.8)
   * ***We use the ‘enable’ command.***
5. What Cisco IOS command would be used in order to configure the current time? (Lab 2.1.4.8)
   * ***‘Clock set’ command to configure the current time.***
6. What information is displayed when the show running-config command is entered from within the IOS privileged exec mode prompt? (Lab 6.4.1.2)
   * ***Show running config displays the current configuration settings of the cisco device: routing interfaces, default gateway of switches, settings on ethernet /serial ports, Time settings etc.***
7. Why should every router be configured with a message-of-the-day (MOD) banner? (Lab 6.4.1.2)
   * ***MOD banner will display additional information about the router that will tell the administrator the purpose of the router and maybe some important messages, like the latest or last changes configured. Maybe used for best practices.***
8. What action does the use of copy startup-config flash command perform? (Lab 6.4.1.2)
   * ***This will copy the start-up configuration of the cisco device to the flash memory.***
9. From Part 1, how can you validate that both passwords were correctly configured? (Lab 2.3.2.5)
   * ***You can use the ‘login local’ command from the line configuration terminal***
10. What function does the no shut command play in configuring Cisco-based devices? (Lab 2.3.2.5)
    * ***No shutdown command is to administratively enable a port. It means that the port will remain on until it is administratively shutdown.***