Wireshark Packet Analyze

NOTE: 1 Bytes = 8 Bits

i. What are the source and Destination IP addresses? (2 marks)

ii. What are the source and Destination MAC addresses? (2 marks)

iii. What is the TTL? (1 marks)

128

iv. iv. What is the IP Packet total length? (1 marks)

60

v. What is layer 4 protocol? (2 marks)

ICMP

vi. Briefly explain about the above communication. (2 marks)

ICMP PACKET BROADCASTING

STARTING WITH ETHERNET FRAME

14 Bytes

First 6 Bytes in YELLOW = Destination Mac Address

- 11011000 10010100 00000011 11110111 01110100 01011101
- D8-94-03-F7-74-5D

Second 6 Bytes in GREEN = Source Mac Address

- 00011000 01100000 00100100 01000100 01010011 10111101
- 18-60-24-48-53-BD

Third 2 Bytes in **BLUE** = Protocol Type

• 8 = EGP

First 2 Bytes in YELLOW = IHL and Type of Service

Second 2 Bytes in GREEN = Total Length

- 00000000.00111100
- 60

Third 2 Bytes in **BLUE** = Identification

- 2 Bytes in **PINK** = Fragments
- 1 Bytes in **ORANGE** = TTL
 - 10000000
 - 128
- 1 Bytes in PURPLE = PROTOCOL
- 2 Bytes in YELLOW = Header Checksum
- 4 Bytes in GREEN = Source Ip Add
 - 11000000 10101000 00010000 00010101
 - 192.168.16.21
- 4 Bytes in **BLUE** = Destination Ip Add
 - 11000000 10101000 00010000 111111110
 - 192.168.16.254