tudent Name	:				
iroup	:				
ate	:		<del> </del>		
AB 3: SNIFF	ING AND	ANALYSING	NETWORK PAC	<u>KETS</u>	
XERCISE 3A	: PACKET	S CAPTURIN	<u>IG</u>		
om the time	your Rfc86 Il it receive	S5UdpClient in ed the quote of	itiated a request	to the DNS serv	oy your laboratory PC er to resolve the QoE ddress of the packets
Packet	Source	Source IP	Dest. MAC	Dest. IP	Purpose of Packet
	MAC				
1.					DNS request
2.					

	Last.	QOTD server		Your QotdClient		Quote of the da reply
W	hat is the	IP address of IP address of MAC address	the QoD serv	ver?	] ]	

CE3005: Computer Networks Laboratory 3

## **EXERCISE 3B: DATA ENCAPSULATION**

Complete Captured	
Data	
(please fill in ONLY 8	
bytes in a row, in hexadecimal)	

### **EXERCISE 3C: DATA LINK PDU - ETHERNET FRAME**

What type of upper layer data is the captured ethernet frame carrying? How do you know?

Determine the following from the captured data in Exercise 3B:

Destination Address	
Source Address	
Protocol	
Frame Data	
(8 bytes in a row, in hexadecimal)	
,	

### **EXERCISE 3D: NETWORK PDU - IP DATAGRAM**

What type of upper layer data is the captured IP packet carrying? How do you know?

Does the captured IP header have the field: Options + Padding? How do you know?

Determine the following from the Frame Data field in Exercise 3C:

Version	
Total Length	
Identification	
Flags (interpret the meanings)	
Fragment Offset	
Protocol	
Source Address	
Destination Address	
Packet Data	
(8 bytes in a row, in	
hexadecimal)	

#### **EXERCISE 3E: TRANSPORT PDU - UDP DATAGRAM**

Determine the following from the Packet Data field in Exercise 3D:

Source Port	
Destination Port	
Length	
Data	

(8 bytes in a row, in hexadecimal)	

# **EXERCISE 3F: APPLICATION PDU**

Interpret the application layer data from the Data field in Exercise 3E:

Message	

Is this the message that you have sent?