Assignment No.

Title: **Lab Assignment on Unit V: (Mandatory Assignment) (Use C/C++)**
Write a program to analyze following packet formats captured through Wireshark/Internet
for wired network. 1. Ethernet 2. IP 3.TCP 4. UDP

Date:-

Marks:-   Signature:-

Packet tracer

Q1 Draw header format of IPv4 packet?

Octet	0		3 4	7 8	13 14	15 16					31
0	Version		IHL	DSCP	ECN		Total length				
4	identification					flags	Fragment offset				
8	Time to Live			Protocol			Header Checksum				
12	Source Address										
16	Destination Address										
20	Options										

IPv4 header packet

Q2 ① Draw header format of TCP.

Byte offset

0	Source Port		Destination Port	
4	Sequence Number			
8	Acknowledgment Number			
12	Offset	Reserved	TCP flag CE UA P R SF	Window
16	Checksum		Urgent Pointer	
20	TCP Options (optional)			

Header format TCP

Q3 Draw header format of UDP?

Bytes		
0	Source Port	Destination Port
4	Length	Checksum

Checksum   RFC 768

UDP Header

Q4 Draw header format of IGMP?

Byte/Bit			
0	Type	Code	Checksum.
4		Other message specific information	

ICMP Header..