	M-E-I Sem- Comp 41610	9.
VT-April-09-341 Elective I: - Network Protocols & Networking		
Con. 3	3549-09. muadda.com (3 Hours) (Total Marks: 100	
N.B.: (1) Question No. 1 is compulsory.  (2) Solve any four questions out of remaining six questions.		
1. (a)	How many class A, B and C networks exist? Exactly how many hosts can a network in each class have? Explain.	C 10
(b)		;
2. (a)	Compare the following :—  (i) ARP and RARP  (ii) IPv4 and IPv6.	10
(b)	Explain silly window syndrome. Explain Nagle's algorithm and Clark's solution.	10
3. (a)	05 00 11 12 11 03 03 02 (Hex)	10
(b)	Analyse the header. muadda.com  Comment on "Internet Protocol provides an unreliable, connectionless datagram delivery service".	10
4. (a)	Explain TCP state transition diagram.	10
(b)	Explain congestion control in TCP.	10
5. (a)	Explain in detail Path Vector Routing.	10
(b)	The following is the dump of UDP header in hex format	10
	06 32 00 OD 00 IC E2 17 (i) What is the source port number?	
	(ii) What is the destination port number ?	
	(iii) What is the total length of datagram ?	
	(iv) What is the length of the data?	
	(v) What is the client process?	
6. (a) Explain different ICMP message formats		
6. (a) (b)	Explain in detail how DNS offers a hierarchical naming ask and	10 10
7. Write	e short note on any four :—	20