

NR/R09

Code No: B4001/D4012

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II - Semester Examinations, October/November 2011

**INTERNET WORKING WITH TCP/IP
(INFORMATION TECHNOLOGY)**

Time: 3 hours

Max. Marks: 60

**Answer any five questions
All questions carry equal marks**

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- 1.a) What do you understand the format and fields of a datagram and explain it briefly?
b) What are the needs for fragmentation and the fields involved and describe with example. [12]
- 2.a) Differentiate between ARP and RARP. What are the Position of ARP and RARP in TCP/IP protocol suite with neat diagram?
b) Explain the General format of ICMP messages with diagram. [12]
- 3.a) Explain the IGMP operation and Membership report with diagram.
b) What are the various types of IGMP messages and explain each with diagram. [12]
- 4.a) What are the various types of routing protocols in TCP/IP suite and explain each with neat diagram.
b) Explain the multicasting routing protocol with neat diagram. [12]
5. Explain the Distance Vector Routing tables with Initialization of tables in distance vector routing and updating in distance vector routing. [12]
- 6.a) Describe the Exchanging Messages in the Dynamic Host Configuration Protocol.
b) Explain how the Manual and Automatic Configuration in the Dynamic Host Configuration Protocol. [12]
- 7.a) Explain how to create the connections by using control connection and data connection in the File Transfer Protocol.
b) Explain the Categories of ICMPv6 messages. [12]
8. Write a short on
a) General format of ICMP messages.
b) Mail Transfer Agent. [12]
