

**R09**

**Code No: C6102, C6502**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY-2012**

**INTERNETWORKING**

**(COMMON TO COMMUNICATION SYSTEMS, WIRELESS AND MOBILE COMMUNICATIONS)**

**Time: 3hours**

**Max. Marks: 60**

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

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- 1.a) Explain with relevant diagrams the IP data gram format.
- b) What are the advantages of using UDP over TCP?
- 2.a) Explain the four protocols in the network layer of TCP /IP namely: ARP , RARP, ICMP and IGMP.
- b) What is a best effort delivery service?
- 3.a) What are the various classes of addressing relevant to internet address?
- b) Explain subnetting with a neat example.
4. Explain Distance Vector Routing with relevant examples.
- 5.a) List the steps involved in creating a check sum.
- b) How the check sum checker know that the received data unit is undamaged?
6. How does Post office Protocol (POP) used by a mail server in conjunction with SMTP receive and hold mail for hosts.
- 7.a) How are HTTP and WWW related to internet?
- b) Compare and contrast the three types of WWW documents.
- 8.a) What are the Pitfalls of using voice – over - IP?
- b) Write short notes on Real – time Interactions Audio – Video.

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