

R09

Code No: D0504, D5804

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II - Semester Examinations, March/April 2011

ADVANCED COMPUTER NETWORKS

**(COMMON TO COMPUTER SCIENCE, COMPUTER SCIENCE AND
ENGINEERING)**

Time: 3hours

Max. Marks: 60

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

1. a) Explain the 5 layer TCP/IP model.
b) What are the different types of delays experienced by the packet-along the path between source and destination? Explain. [6+6]
2. a) Explain and compare various Ethernet technologies.
b) Describe the multiple access protocols. [6+6]
3. Explain point to point – protocol in detail? [12]
4. a) Compare the individual fields of the IPV4 header with the IPV6 header.
b) Differentiate between the Intra domain multicast protocols and Inter domain multicast protocols. [6+6]
5. a) Explain the file transfer protocols.
b) Compare IPV4 and IPV6 protocols. [6+6]
6. a) Explain the characteristics of SMTP protocol.
b) What is virtual private network? Explain. [6+6]
7. a) Explain the wireless mesh networks with diagrammatical representation.
b) Discuss important concepts of Cellular Networks. [6+6]
8. Write a brief note on:
a) Wireless sensor Networks.
b) Mobile ad-hoc Networks. [6+6]
