



- b) What do you mean by guided transmission media? Enlist various guided media used for data transmission. Explain co-axial cable in detail. (07)

**Q-5**

**Attempt all questions**

- a) Explain distance vector and Link State routing mechanism with example. (07)  
b) Describe the working of sliding window protocol. Also explain the piggybacking phenomenon (07)

**Q-6**

**Attempt all questions**

- a) Discuss and list the congestion prevention policies at data link, network and transport layers that can affect the congestion (07)  
b) Explain a protocol Using Go Back N strategy using pipelining and show the scenario in the case of (07)  
• when receiver' window size is 1 and  
• when receiver' window size is large

**Q-7**

**Attempt all questions**

- a) What is the role of Domain Name Server (DNS) in Internet? Explain the hierarchy of various domain names. (07)  
b) Explain Different types of Switching methods with examples. (07)

**Q-8**

**Attempt all questions**

- a) Explain the working of electronic mail protocols SMTP, IMAP and POP3 in brief with suitable diagram (07)  
b) Explain the following techniques for achieving good quality of service. (07)  
(i) Traffic shaping (ii) Leaky bucket algorithm

