

Q-3 (a) Give the classification of Network. What is Topology, Discuss in detail the concept Topology with it's merits and demerits. (6)

Q-3 (b) What is Transmission media? Discuss the different types of transmission media. (6)

OR

Q-3 (b) What do you mean by OSI reference model? Describe the each layer of the OSI reference model in detail. (6)

Q-4 (a) Discuss the selective repeat ARQ sliding window at both the sender and the receiver side. (6)

Q-4 (b) Discuss the carrier sense multiple access protocol with persistent strategies. (6)

OR

Q-4 (b) Explain in brief the mechanism of Go back n ARQ with figure. (6)

Q-5 (a) What is Switching? Explain the concept packet switching in brief. (6)

Q-5 (b) Explain the following internetworking devices : (6)
1. Firewall
2. connectionless internet

OR

Q-5 (b) Write a short note on : Leaky Bucket (6)

Q-6 (a) What is Cryptography? Explain the Secret key and the public key cryptography with suitable example. (6)

Q-6 (b) Generate cipher text for the plain text "COMMUNICATION" using RSA algorithm. Also decrypt the cipher text and obtain the original plain text. (Take $p=5$ & $q=7$) (6)

OR

Q-6 (b) Write a note on following (6)
1. E-mail
2. MIME

- Best of Luck -