Q.P. Code : 13123

[Time: Three Hours]   [Marks:80]

Please check whether you have got the right question paper.

N.B: 1. Question No. 1 is compulsory.
        2. Attempt any Three questions out of remaining questions.

Q. 1   Answer any four   20
        a) Compare Slotted ALOHA and Pure ALOHA.
        b) Explain IP Address and Subnet Mask
        c) Compare Circuit switched and Packet switched networks.
        d) Explain Selective Repeat Protocol.
        e) Piggybacking.

Q. 2   a) What is OSI model? Give the function and service s of each layer.   10
        b) What are three main function of Network layer? What is Routing? Explain shortest path Routing. 10

Q. 3   a) Draw and explain TCP segment header.   10
        b) Explain CSMA/CD protocol.   10

Q. 4   a) Compare 802.3, 802.4 and 802.5 IEEE standard.   10
        b) Explain HDLC protocol along with its different frame structure.   10

Q. 5   a) What is congestion control and what are the causes of congestion? Explain Token Bucket algorithm. 10
        b) What are the elements of Transport Layer   10

Q. 6   Write short notes on (Any Four)   20
            i)   Network Topologies
            ii) Traditional Ethernet
            iii) Mobile Telephone System
            iv) RIP(Routing Information Protocol)
            v)   Berkely socket