B. Tech Degree VI Semester (Supplementary) Examination September 2010

CS/IT 606 COMPUTER NETWORKS
(2006 Scheme)

Time : 3 Hours   Maximum Marks : 100

PART – A
(Answer *ALL* questions)

(8 x 5 = 40)

I.   (a)   Explain types of networks.
     (b)   What is P2P file sharing?
     (c)   Compare datagram and virtual circuits.
     (d)   Differentiate between multiplexing and demultiplexing.
     (e)   Write short notes on
           (i)   TDM   (ii)   FDM
     (f)   Explain circuit and Packet switching.
     (g)   Write notes on CDMA.
     (h)   Explain -   (i)   Network traffic monitoring
                        (ii) Socket Programming

PART – B   (4 x 15 = 60)

II.   With a neat sketch explain OSI reference model in detail.   (15)
                                    OR
III.   What is DNS?   What is the message format?   How the data bases are
       maintained and used?   (15)

IV.   Explain TCP segment structure with explanation of connection establishment
       and termination.   (15)
                                    OR
V.   What is congestion? Explain different congestion control algorithms.   (15)

VI.   What are the types of routing algorithms? Explain any two in detail.   (15)
                                    OR
VII.   Explain HDLC protocol in detail.   (15)

VIII. Explain in detail ISDN and BISDN.   (15)
                                    OR
IX.   Write notes on :
       (i)   FDDI
       (ii) SONET   (7.5 x 2 = 15)

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