

Con. 4502-12.

(REVISED COURSE)
(3 Hours)

GN-8489
[Total Marks : 100

N.B. (1) Question No. 1 is Compulsory.

(2) Attempt any four questions out of remaining six questions.

(3) Assume suitable data, wherever necessary.

Q.NO.1 (a) Explain How Fast Ethernet differs from 10 base T? (05)

(b) Compare In Band signaling and Out Band signaling. (05)

(c) Write a note on flow control in data link layer. (05)

(d) Explain the TCP/IP utilities. (05)

Q.NO.2 (A) Explain the various transmission media and transmission line impairments in details. (10)

(B) Derive the transmission efficiency of GO back N ARQ. State effect of bit error rate and delay bandwidth product on transmission efficiency. (10)

Q.NO.3 (A) Explain SONET/SDH in detail. (10)

(B) Compare packet switching and circuit switching in detail. (10)

Q.NO.4 (A) Explain Dijkstra's algorithm and Bellman Ford Algorithm in detail. (10)

(B) Explain ADSL with respect to channel configuration and modulation techniques. (10)

Q.NO.5 (A) Explain STOP AND WAIT arq, Go-Back N- ARQ, Selective Repeat ARQ. (10)

(B) Explain in detail Repeater, HUB, Bridges, Routers, Gateway, Switches. (10)

Q.NO.6 (A) Explain in detail HDLC protocol with all frame types supported by HDLC. (10)

(B) Explain Berkeley Application Programming Interface in Detail. (10)

Q. NO.7 Write short notes on Following :-

(A) TELNET and FTP (05)

(B) OSI layered architecture (05)

(C) IEEE 802.3 standards (05)

(D) IPv4 and IPv5 (05)