Con/2534-07.

BE(ETRX) Sem MIL (R) 26/05/07

Data (ammuni cactor & Networking 11-2
(REVISED COURSE)

(3 Hours)

[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 if necessary.	
(a) Compare the following transmission media : (i) Twisted pair and optical fiber (ii) STP and co-axial cable.	10
(b) (i) Discuss difference between repeaters, bridge, routers and gateway. (ii) Explain in brief design factors for transmission media.	10
2. (a) Compare – (i) HDSL (ii) ADSL (iii) SDSL (iv) VDSL.	10
(b) What is protocol performance? Derive the relation for protocol performance for – (i) stop and wait flow control mechanism	10
(ii) sliding-window-protocol mechanism.	
(a) Explain Leaky bucket and Tocken bucket algorithm in detail. (b) Explain –	10
(i) Dijkstra's (ii) Belman-Ford Algorithm.	
4. (a) Explain signalling system 7 (ss7) in detail.(b) Write note on –	10
(i) IEEE 802.3 (ii) IEEE 802.5	10
(a) Draw and explain ATM reference model.(b) Generate the CRC code for message 1101010101 given generate polynomial	8
$g(x) = x^4 + x^2 + 1$	4
(c) What is DTE - DCE interface?	
6. (a) Explain SLIP and PPP protocol used in internet.(b) Explain HDLC in detail.	10
7. Write short on : (a) CSMA/CA	20
(b) ISDN (c) TCP/IP reference model (d) Spanning Tree algorithm.	
