7.

(REVISED COURSE)

& networms ND-8252

(3 Hours)

7 6

		(Cricars) [Total Marks : Total	J
N.	(:	Question No. 1 is compulsory. Attempt any four questions out of remaining six questions. Figures to the right indicate full marks. Assume suitable data wherever required.	
1.	а	The HDLC frame below is sent from primary to secondary answer the following question-	
		011111110 00001111 10001011 FCS 011111110	
		 [i] What is the address of the secondary? [iii] What is the type of frame? [iiii] What is the sender sequence number (if present) [iv] What is the acknowledgement number (if present) [v] Does the frame carry user data? If yes what is the value of data? [vi] Does the frame carry management data? If yes what is the value of data? 	
		[vii] What is the purpose of the frame?	
		What is the difference between Network layer delivery and transport layer delivery	
	c) d)	What is the difference between congestion control and flow control What is the difference between service point addressing, logical addressing and physical addressing?	
	e)	In sliding window flow control method, why the size of window is one less than the modulo range.	
2.	a)	Explain the SONET multiplexing and SONET frame structure.	11
	b)	What is the mechanism of sliding window flow control	10
	a)	Explain HDLC protocol with frame format?	14
	b)	The codeword is received as T = 1010 0011 0101 1110. Check whether there are errors in the received code word if the divisor is 110101.	06
	a)	Explain CSMA/CD and its use what part of 802 project uses CSMA/CD	10
	b)	Explain Repeater, Bridges, Router and Switches.	10
	a)	Explain IP header and explain each field.	10
	b)	Explain Dijkstra's shortest path algorithm using graph.	10
		Define Utilization or efficiency of the line and derive the expression for – Stop & wait flow control and sliding window flow control	10
	b)	With the help of block diagram explain ATM protocol architecture.	10
		pare-	7

b) Circuit switching, datagram packet switching and virtual packet switching c) OSI model and TCP/IP model