P.T.O.

Total	l No.	o. of Questions : 5] SEAT No. :	SEAT No.:	
P-5	783	Total N	o. of Pages : 2	
		[6120]-105	Management & Chi	
		M.C.A. (Management)	LIBRARY	
		IT-15: NETWORK TECHNOLOGIES		
		(2020 Pattern) (Semester - I)	O to # Insing,	
			-0	
			x. Marks: 50	
Insti	ructio	tions to the candidates:		
	1)		<b>o</b> '	
	2)	81.50		
	3)	Draw neat diagrams wherever necessary.		
01)	2)	Explain Guided transmission media in detail.	[4]	
Q1)				
	b)	Compare OSI model Vs TCP/IP model.	[6]	
		OR		
	a)	Explain Ethernet Frame Format & Access method.	[4]	
	b)	Explain Need of Layering with example.	[6]	
Q2)	a)	Draw and explain IPv6 packet format.	(4)	
	b)	Generate CRC code for the data word - 11001010 using	the divisor -	
	7	10101.	[6]	
		OR		
		For the given Class-C IP Address - 198.168.57.23 and	Suhnet mask	
<	a)	255.255.192. Calculate	[4]	
) \		i) Total no. of subnets		
		ii) Total no. of Host IPs/Subnet		
•		iii) Total no. of Valid Host IPs/Subnet		
	, , , , , , , , , , , , , , , , , , ,	iv) First and Last Valid IP for each subnet		
			r./3	
	b)	Describe any two Error-detection techniques.	[6]	

**Q3**) a) Find the maximum number of Hosts available on Class-B IP address with subnet mask 255.255.255.240. Also find maximum number of subnets available. Describe HDLC protocol with its sub types and frame format. [6] 6) OR Explain performance of TCP protocol in wireless network. [4] a) Detect and correct the single error in the received Hamming code word 6) [6] 110011100110 with odd parity. [4] **Q4**) a) Explain different security attacks. Explain MIME in detail. [6] b) OR Explain symmetric key cryptography with example. [4] a) What is HTTP? Explain HTTP request and response messages in detail. b) [6] Explain path vector protocol in brief. [4] Q5) a) Write a TCP server socket program which accept a request from client b) to capitalize string and sending the response in the form of capitalized [6] sentence back to the client. OR 4 Explain RIP in detail. a) Write Client and Server programs for establishing and termination of b) connection between client and server using TCP. [6] LIBRAR