Seat No.:	Enrolment No
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## GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VIII • EXAMINATION - SUMMER 2013

PDDC - SEMESTER-VIII • EXAMINATION – SUMMER 2013				
U		Code: X81101 Name: Data Communication and Networking	Date: 09-05-2013	
Time Instru		0.30 pm - 01.00 pm	Total Marks: 70	
	1. 2.	Attempt all questions.		
Q.1	(a) (b)	1	. 07 02	
	(c)		ers,	
	<b>(d)</b>	Compare circuit-switched and packet-switched network	s. <b>07</b>	
<b>Q.2</b>	(a)	1 ,	07	
	<b>(b)</b>	Write a short note on Digital Subscriber Line. <b>OR</b>	07	
	(b)	_	bits	
Q.3	(a)	What are the functions of data link layer? Explain diffe methods of framing.	rent <b>07</b>	
	(b)	<u> </u>	110; (in	
		OR		
Q.3	(a) (b)	Write a brief note on sliding window protocols.	07 col. 07	
Q.4	(a)	What are the key assumptions in Dynamic charallocation in LAN?	nnel <b>07</b>	

	<b>(b)</b>	Explain pure ALOHA and slotted ALOHA protocols.	<b>07</b>
		OR	
<b>Q.4</b>	(a)	Measurements of a slotted ALOHA channel with an	<b>07</b>
		infinite number of users show that 10 percent of the slots	
		are idle.	
		(i) What is the channel load, G?	
		(ii) What is the throughput?	
		(iii) Is the channel underloaded or overloaded?	
	<b>(b)</b>	Explain physical layer transmission techniques in IEEE	<b>07</b>
		802.11 standard.	
Q.5	(a)	What are the policies that affect congestion in	07
		(i) Data link layer (ii) Network layer (iii) Transport layer	
	<b>(b)</b>	Write short note on Shortest path routing algorithm.	<b>07</b>
		OR	
Q.5	(a)	Explain the various header fields of E-mail.	<b>07</b>
	<b>(b)</b>	Write short note on MPEG standards.	<b>07</b>

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