Seat No.:	Enrolment No.
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Subject Code: X 81101

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER-VIII • EXAMINATION - SUMMER • 2014

Date: 27-05-2014

		bject Name: Data Communication and Networking me: 10:30 am - 01:00 pm Total Marks: 70	
		structions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a)	Draw and explain the TCP/IP reference model for networking.	07
Q.2	(b) (a)	What are the signals used for RS-232 interface? Explain. Also draw null modem. (i)Explain the following service primitives for connection oriented service: LISTEN,CONNECT	07 07
	(b)	(ii)Explain various guided transmission media used for networking Compare circuit switching and packet switching. OR	07
	(b)	Write a short note on Global System for Mobile Communications	07
Q.3	(a) (b)	Write short note on error detecting and error correcting codes. What is bit stuffing and byte stuffing in data link layer? Explain with suitable examples.	07 07
		OR	
Q.3	(a)	Write a brief note on: (i)Go back by n protocol (ii)Selective repeat protocol	07
	(b)	Explain Carrier sense Multiple Access protocols.	07
Q.4	(a)	Explain Wireless LAN protocols.	07
	(b)	Write a short note on Bluetooth.	07
Q.4	(a)	OR Explain the following:	07
V. -1	(a)	(i)Repeater (ii)Bridge (iii)Router (iv) Gateway	07
	(b)	Compare the following issues in datagram subnet and virtual circuit subnet: (i)Circuit setup (ii)Addressing (iii)State Information (iv)Routing (v)Effect of router failures (vi)Quality of Service (viii)Congestion control	07
Q.5	(a)	Write short notes on:	07
	(b)	(i)Flooding (ii)Distance vector routing What is jitter in internet? How jitter is controlled in network layer?	07
	(10)	OR	07
Q.5	(a) (b)	Explain the classes of IP addresses. Write short note on voice over IP.	07 07

1