20.077	200	Niena-	
191	a vocal	1111111	

	renvonline.com Roll No		b)	Draw the Manchester and differential Manchester encoded wave form for the following message.	
	rgpvonline.com Roll No			M = [1 1 0 0 1 0 1 1 1 0 1]	
EC-601(NGS)				Unit - III	
B.E. VI Semester		5.	a)	Calculate the CRC for the message 10	
Examination, June 2013 Data Communication & Networks				$m(x) = 1101011$ using the generator polynomial $g(x) = x^4 + x^3 + 1$.	
(Non-Grading Scheme)				Also explain how error is detected by sending the CRC.	
Time: Three Hours			b)	What is ARQ? What is piggy backing? 10 OR	
	No. 1 25	6.	a)	the state of the s	
Maximum Marks: 100 Minimum pass Marks:			,	ARQ. 10	
	a a a a a a a a a a a a a a a a a a a		b)	Draw and explain the frame format used in HDLC protocol.	
Vote:	Attempt any one question from each unit. All questions			्र अव अध्यान स्थान १०	
	carry equal marks.			Unit - IV rgpvonline.com	
	Unit - I	7.	a)	Draw and explain the frame format used in IEEE 802.5	
1. a)	Explain the different categories of networks.			token Ring LAN. 10	
	LAN, MAN, and WAN.		b)	What is vulnerable time? Explain Binary exponential back	
b)	Enlist and explain the main functions of different layers			off algorithm? 10	
	of OSI Model. rgpvonline.com 10			OR	
	OR	8.	a)	What is CSMA/CA? How does it differ from CSMA/CD?	
2. a)	What are protocol and standards? Name some standards			10	
	organizations?		b) .	Write short note on Blue tooth.	
b)	Calculate the maximum bit rate for a channel having band			Unit - V	
	width 3100 Hz and S/N ratio 10 dB.	9.	a)	What is a repeater? Enlist its characteristics. What types	
	Unit - II			of repeaters are used in data networks?	
3. a)	type of switching is better?		b)	What are the function of network layer for which it is responsible?	
b	Explain the different types of switches time division,			OR	
	space division and space time division. 10	10.		Draw and explain the header format for IP _v 4. 10	
	OR		b)	Classify routing algorithms. 10	
4. a) Compare FDM and PDM. 10			rgpvonline.com	
	ol(NGS) rgpvonline.com PTO	EC-6	01(2	NGS) ******	