10144 110. 07 2			
		b)	Draw the Manchester and differential ivianchester encoded
Roll No			wave form for the following message.
			M = [11001011101]
EC-601(NGS)			Unit - III
B.E. VI Semester	5.	. a)	10
Examination, June 2013 www.rgpvonlin	ne.in		$m(x) = 1101011$ using the generator polynomial $g(x) = x^4 + x^3 + 1$.
Data Communication & Networks			817
(Non-Grading Scheme)		L)	Also explain how error is detected by sending the CRC.
		D)	What is ARQ? What is piggy backing?
Time: Three Hours	ranvonline in		OR
Maximum Marks: 100 Minimum pass Marks: 35	rgpvoriiirie.iii _b	a)	Differentiate between Go-back N and selective repeat
			ARQ. 10
Note: Attempt any one question from each unit. All questions	5	b)	Draw and explain the frame format used in HDLC protocol.
carry equal marks.			10
	-		Unit - IV
Unit - I	7.	a)	The state of the s
 a) Explain the different categories of networks. 			token Ring LAN. 10
LAN, MAN, and WAN.		b)	What is vulnerable time? Explain Binary exponential back
 Enlist and explain the main functions of different layers 	5		off algorithm?
of OSI Model.	J		OR
OR		a)	What is CSMA/CA? How does it differ from CSMA/CD?
a) What are protocol and standards? Name some standard	S		10
organizations?	0	b)	Write short note on Blue tooth. 10
 b) Calculate the maximum bit rate for a channel having ban 	d		Unit - V
width 3100 Hz and S/N ratio 10 dB.	0 , 9.	a)	What is a repeater? Enlist its characteristics. What types
Unit - II			of repeaters are used in data networks? 10
a) Differentiate between circuit and packet switching. Whice	h	b)	What are the function of network layer for which it is
type of switching is better?	0		responsible? 10
 Explain the different types of switches time division 	n,		OR
space division and space time division.	.0 10.	. a)	Draw and explain the header format for IP _v 4. 10
OR		b)	Classify routing algorithms. 10
 a) Compare FDM and PDM. 	0		
EC-601(NGS)	0 EC	-601(NGS) *****
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