SURPRISE TEST AIMAN SIDDIQUA - 2K18 Mc DOS.		COMPUTER NETWORKS
1. Dataword: $x^{7}+x^{5}+1$ Polynomial: 10100001 1001 1001 1001 1001 1001 1001 1110 1001 1110 1001 1110 1001 1110 1001 1110 1001 1110 1001		SURPRISE TEST
1. Dataword: $x^{7}+x^{5}+1$ Polynomial: 10100001 1001 1001 1001 1001 1001 1001 1110 1001 1110 1001 1110 1001 1110 1001 1110 1001 1110 1001		
Polynomial: 1010 0001 1001		AIMAN SIDDIQUA - 2K18/Mc/008.
Polynomial: 1010 0001 1001		
Polynomial: 1010 0001 1001	1.	Dataword: x7+x5+1
1001) 10100001 000 (101101) 1001		Polynomial: 10100001
1001		
1001	-	
1100 1001 1001 1110 1001 1110 1001 1110 1001 1110 1001		1001) 1010 0001 000 (1011011
1001 1001 1110 1001 1110 1001 1110 1001 1111 -> CRC		
10 10 1001 1110 1001 1110 1001 1110 1001 1111 —> CRC		
100 \(\text{110} \) 100 1110 100 1110 100 100 1110 100		
1110 1001 1110 1001 1001 1110 1001 1111 -> CRC		
1001 1001 1110 1001 1110 1001 111 -> CRC		
1001 1001 1110 1001 111 -> CRC		
1110 1001 1001 111 -> CRC		1110
1001 1100 1001 111 -> CRC		1001
1110 1001 111 -> CRC		1110
1001 111 → CRC		1001
$111 \rightarrow CRC$	-	1110
Dafaword: 10100001111		$111 \rightarrow CRC$
Dala word: 10100001111		
	D	alaword: 10100001111
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	AIMAN SIDDIQUA -2K18/MC/008
(2) lu	0.200.0.0
Thi o	belongs to Class B.
	0
	of Networks = 214
	2 of host = 216 Used = 216-2
<i>\\</i> X	5. & Addressee = 230
(p)	2 bits already fixed
	2 bits already fixed We will fix 4 more for 16 subnels
L	Subnetwork mask = 255.255. 240.0
(d)	Maximum no. of host within each subnetwork
	Used = 212-2
-	
(14)	A soft with asignment Parental distance A
- (*1)	A code with minimum hamming distance of between its codewords can defect at most d-1 errors
	and can correct [d-1) [2] errors.
	Minimum hamming distance = 7
	Detected = 7-1 = 6
	Detected = 7-1 = 6 Corrected = 7-1 = 3
	durant

