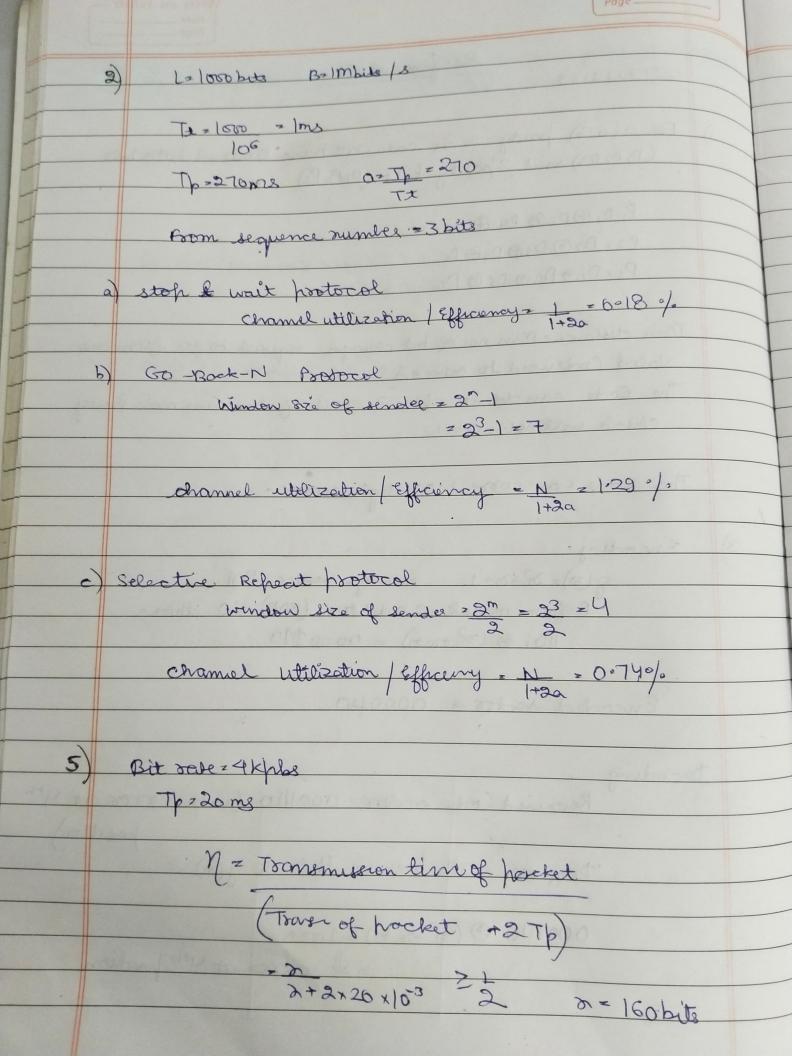
		3003	Date
		Assignment-7	
		TIT2022155	
	2		
	1)	For a (6,3) party chuck code, we have 6 bots.	3 data bits
		(D, D2 D3) and 3 houtly bits (D, P2 P3)	
		PIZD, DD20 Dy DD5	
		P22 D2 @ D3 @ D4 @ D6	
		P3=D1@D3@D5@D6	a many
		Action of American State of the Same of th	
		Min distance = Min no: of bit changes sequent to	go from one
		- There coursed to other = 3	
		The Code can detect who 2 expres. If those of	are more fractly
		Check well not motion.	•
		The Code Con con co	
		The Code can correct a single errory.	a.b
3	3)	Encoding	
,		g(0)= 27+0+1 message rector = 101	
		Perform module - 2 addition (XOR) 5W	there a
		1101 @ (02 +20+1) = 0000 1110	A, W
		May 100 m mar a mar and mit second of the second	0.60
Encoded vector > 0000110			
		,	
	Do	coding	164 4 10 16
		Received Code vector = 000110 (m	Ho extract not 4th
		Coverage (Wo	position
		· Perform XOR between this & g(s)	
		Lakosiii Vois Barranda X des	)
		0001110 ( 53+2+1) = 2000	
	T Excess at Ath Postion		
		a Exesse at	partion



			Date	
	Ą	(1) In absence of everor or lost frames, sender of sending frames without waiting for ac		
		=> Tmax = 2x Tmin + 2Tp		
		Des set O.A. Looma		
	(1) If wolated errors can occur in feedlack direction			
	(acknowledgement) sender must wait for a a timeout heriod before transmitting a frame			
	Obs of a Observation of the Contract of the Co			
		Tmax = 2xTmin +2xTp + Timeout	22 000%	
	6)	m(2)= 22+013+24		
		g(x)= 1+214+216+27+26		
		Encoding = T(a) = m (a) mad g (a)		The state of the s
		= De + DJ + DE	1001	1
7	) & 1	11)		-
,			2 21 mg	12
		2×T feore 2ms		1 1
		of any adjusted to acquire the transfer of	unione l	1,
		(e) No. of pres = lod (m) = rod (3) = 2		
	r	ri) sender window will get orhansled when	sendor has send	
		geames upto window Size (w) and there	are Umacknowledged	
		from within the window. Once the se	nder Window is full	2
		it will wait for acknowledgement	lefore sending	
		new feames.	223	
	(1	(V) 50% channel utilisation :- sender should	d always have	
	300	frame n toansmit	and the same of th	
	344	25% channel utilisation - Sender window	should be.	
		tractially filled		

(Bld) Code [modulo-2]

Rode vectors

1011001

P = 0 P = 1 P3 = 0

P=P, @ P2 @ P4 = 100@1=0.

P2-B@ D3@D4=1@1@1=1

P3 = D2@D3@D420@1@1=0

1001110

P12 D1 10 D2 10 Dy = 10 10 1 = 0

P2=D, @D3 @Dy = 10101 = 1

P3-D2@D3@D4 2001@1 =0

1100101

P1= D, DD20 Dy = 10101=1

P2=D10D30D4 = 10001=0

P3=D2@D3@D4=100@1=0

puriumen distance : is min no of bit flips reg to go from one valid Code rector to another

min distance (d) 2

Essos detection & correction Capability

Export detection Capability: d-122-1 = 1 export can be

Erosor detection Capaline d-1 = 1 export combe cosor 2 2 (250)

1	Write on White
É	odlloo - mesage
)	(5,7) + Cyclic Code
	THE STATE OF THE S
	g(0)=1+84+86+87+88
	m(x) = 00 11160
	7(a) = m(a) mod g (a) = 111000
	Code rector = m(s) +T(s)
	00011140011100 =
	Code rector = 111100.
40)	Tp = Distance = 5×106 = 6.0258
10)	Propagation shed 2x108
	1 1000000 51000
(1)	stop and wait ARQ;
	Toomal-toop = 2xTp=0.058
	Tstop and want = Data size + Total top
	Transmeron Rale
	= 1×90° +0°05 = 0°55 &
	21/06
(n) G	o Back NARQ
	TGoback = NO of frames x from 82e + Th
	Toansmeen Rate
	= 1000 x 10°
	1600 +0.025 = 0.52 fee
	2,10

	Write on White  Date  Page
(11)	selective repeat ARO
	Telestre seperat = No of frame x frame 820 + Tp To anomismon rate
	= 1000 + 10° = 10° 025 = 0 €0=
	2×166
	001111100
	STENOR POLKS & FRANKLIK AND THE
	10126 14-4- 1010934367 11 11 11 11 11 11 11 11 11 11 11 11 11
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