

- DRAM is made with cells that store data as charge on capacitoss.
 - -The absence or presence of charge in a Capacitos is interpreted as a binary o or
 - -) It is requires periodic charge retreshing to maintain the data.
 - -> This refresh process can slow down the overan speed of computer

- -> SRAM is a digital device that uses the Some logic element used in processor.
- -) Store bihary data using traditional Flip-Flop logic Ugate configuration.
- -> SRAM is much faster than dynamic ram. and hold its data as long as I poner is supplied

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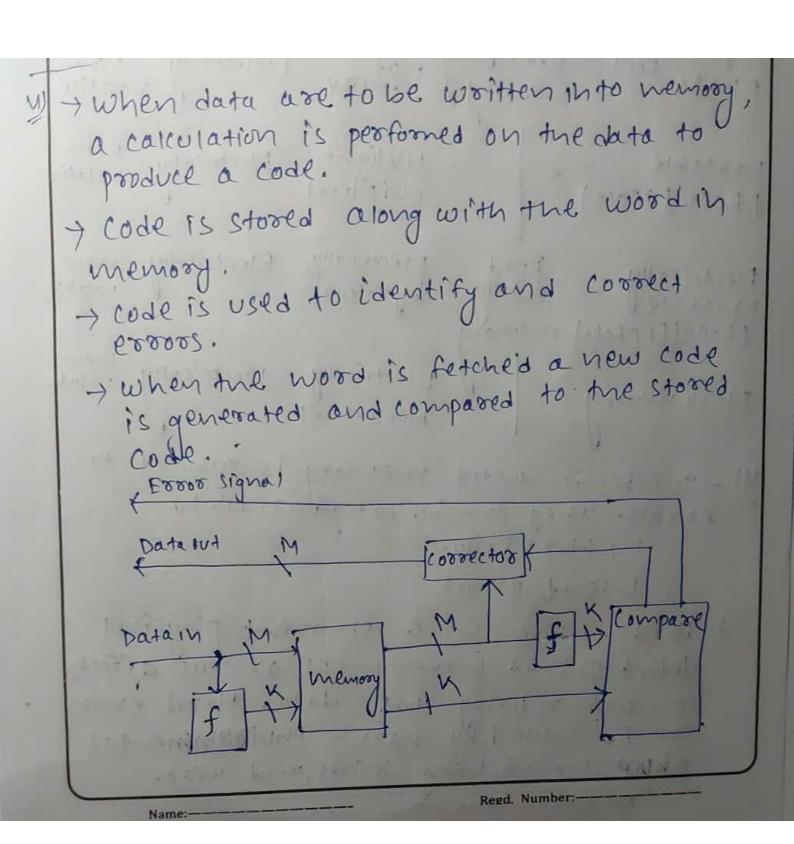
			_
2) types of Rom	MARKET AND	ADDED TO A TOTAL TO A	
Memory Type Cate		mechanism volali	li'ry
and the state of	nony Not possibk	e masks Non volati	12
Posta mulana 1.10	d Jonly not possible	Elelectically No	ne
Erasabil PROM (EPROM)	UV light chiplere	Electrically No	rn lati'u
	ad Electrically ostly byte-level	1 Electrically no	on lating
Flash memory	block-len	All and the second seco	is later

(3) In hamming code

-) If the syndrome contains all zeros,

Tf the Syndrome contains one and only one bit set to 1, then the error has occurred in one of the check bits. No lovor correction is needed.

Tf the syndrome contains more than one bit set to 1, then the numerical value of the syndrome indicates the value of the syndrome indicates the position of the data bit in error. This data bit is inverted for correction.



Soin A Jecoder with Kinput lines has 2^k output line
So if memory is IKB

10

Ly 2 B

No of input lines, = 10

Number of output lines W1 = 2^k = 1024

WHY = 10+1024 = 1034.

Mame: Albhusha hu suam

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M= 11 00 00 10 M=8 SO Dg D7 & P5 Dy D3 D2 D1 K= 4 lusing (1 = D1 + D2 + Dy + D5 + D7 Total=8+40(12) = 0 + 1 + 0 + 0 + 1 The first seed to be a seed of the seed of (2= D, + D3 + D4 + D6 + D7 = 0 () 0 () 0 () 1 = 1 (y = D2 1) P3 1 Dy 1 D8 Check bit stored = 1 @ 0 @ 0 @ 1=0 (8= D5 D D6 D D7 D8 (8 (4 (2 (1 / = 1 @ 0 @ 1 @ 1 = 0 XOR OPP

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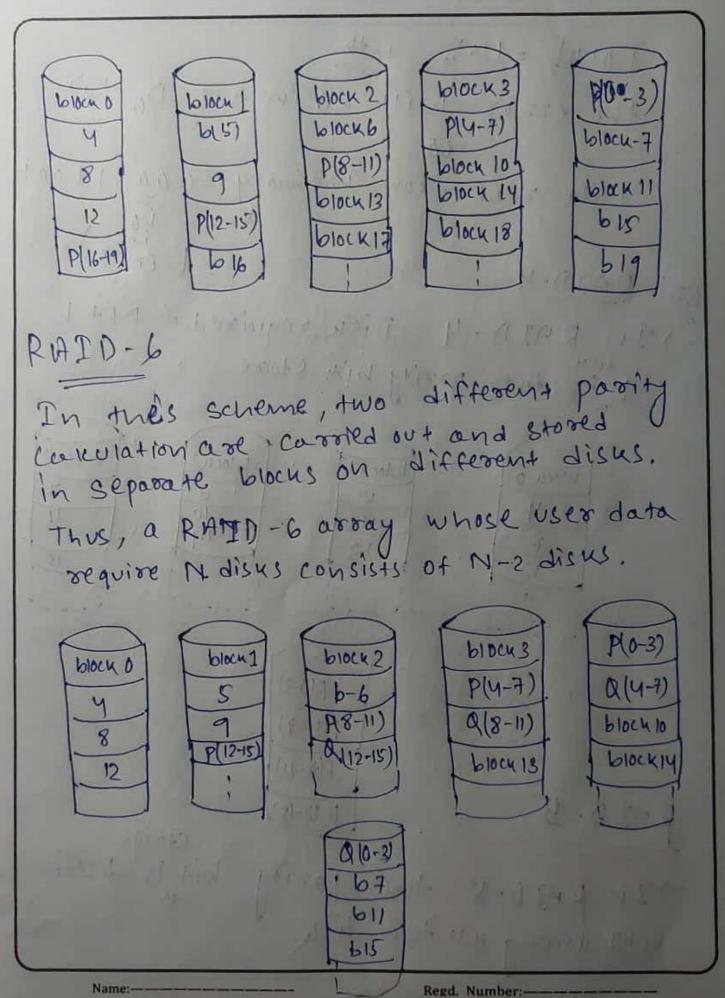
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(110) 101	h	
(1010)2 =	10		in hit
the evo	or will	be in the	. Do bit.
Carried III	(Ca)		
Duda 201	ad toom	memory =	000 11001
Dana og	crysofd from	U . she	06
101	EL NIGHT EL N	1010	1 6200x)
68) RAZD-Y		L A	
TO DAT	n-4 Di	sk required	= N+1
- IN KUT		is store	4 4 6 6 6 6 4
1 is fo	e basity p	14 3 1000	A DESTRU
1 Linday	King bush		
Block t	lolock	1) block	loloch3
BIOCH	T	6	7
8	100/11/19	100	
12	10 10	2 on particular	1 15
		-7 :	
12	wall for		3 / 4
	1-127	P(0-3)	A AMMU
	1-6)21		
1	1 100	P(4-7)	1 4
	vant d	P(8-11)	
RAID-5		P 12-15)	21 200
		1817	Strips lich
7IN RAI	0-5 the		it is distant-
- butter amor	ig all the	dish	

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Q9) 200 MB per drive. y done availance In 100 - RAID O -> 4 + 200 = 800 UB In RAID 1 > 1 for every strip there is 1) Wifferent brode of the the sale pasons (4/2) * 200 = 400 61B IN RAID 3,4,5 3, there is one dish for (4-1) * 200 = 600 GB 200 hours & his to 2002 of a 127h 39h In RAID 6 y there is N+2 dish required that means 2 dish data storage available for parity bit storp even let they are 1 4-2) of 200 = 400 MB wing data bits (210) major functions of 1/0 function. -> Interface to the processor and memory Via the system bus or central switch. > Interface to one or more peripheral device by tailored data links. with and about of a ted and the material to be be the same of the first that it was the best of the same of

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Faculty of Engineering & Technology (ITER) Q11) classification of external services MAN DE COMPANIE Ly Human readable! Suitable for communicating with -> Video display terminals (VDTs) and the computer user. -> Machine readable: Suitable for communicating with equipment: Eg - Magnetic disk, sensors and actuators. ommenication! Suitable for Communicating with remote devices. eg - Homen readable devre Even as terminas a machine readable device even another compoter. Three different mode of operation of 8255A Mode 0:

This is the bosic I/O mode. The three groups of eight external lines function as three 8- bit I/O ponts. Each port can be

Regd. Number:

designated as input or output. Data may only be sent to aport if the port is defined as output, and data may only be read from a port if the port is set to input.

Mode 1: -> In this mode, port A and 13 can be configured as either input or output, and lines from port a searce as control lines for the and B. The control signals serve two poincipal purpose: "hand shawing" and interrupt regest. Handshawing is a simple timing mechanism.

Mode 2!

This is a bidirectional mode. In this mode.

Post A can be Configured as lither the

input or output lines for bidirectional

traffic on post B, with the post B lines

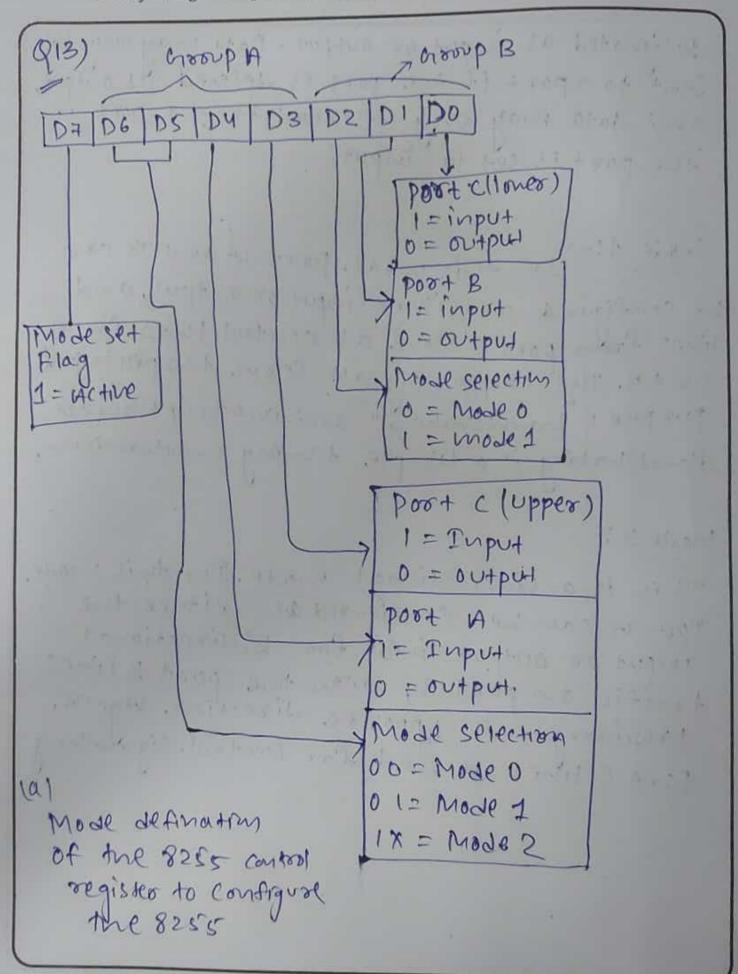
traffic on post B, with the post B lines

providing the opposite direction. Again,

port C lines are used for control signaling.

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Dong Don	it care
10-120125	1 D 4 1 D 3 D 2 D 1 D 0
D+106102	10710311111
Bit set/oeset figg 0 = Active	D3 D2 D1 0 = 8 eset 0 = 8 es
Bit definitions af: the 8255 control register to modify Single bits of post (1.0 bit 5 of poot (1.1 0 bit 6 of poot (1.1 1 bit 7 of poot (
Ans mode 1 f mode 2 f	for I
	Gidisectional data post
	A STANDARD SALARE A
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