Peripherals & Interfaces Notes for Computer Engineering

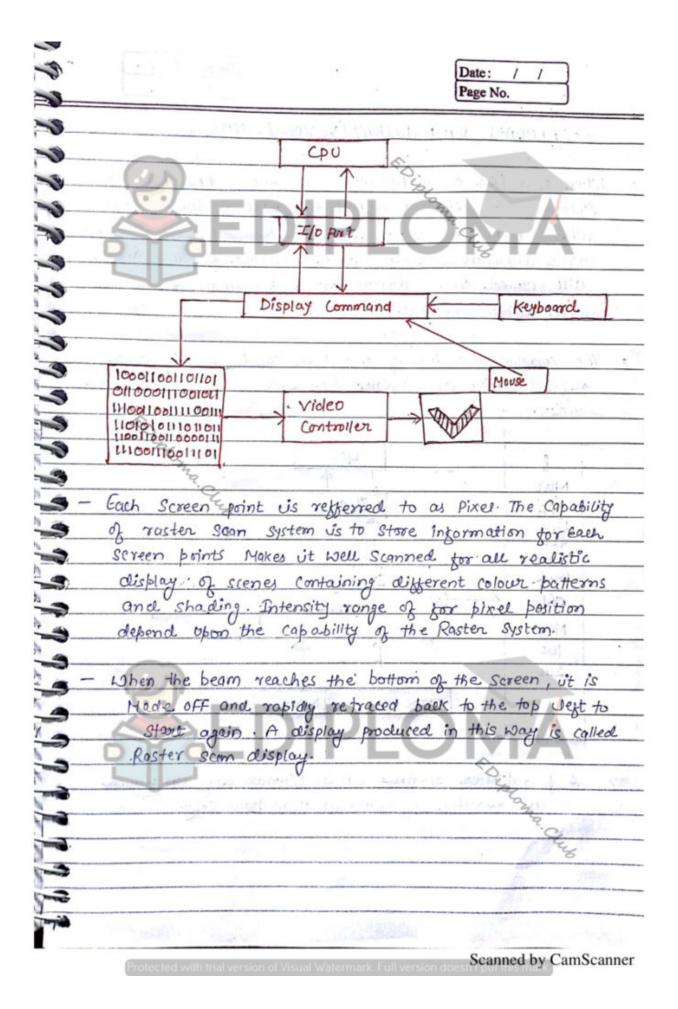
Looking for notes of Peripheral & Interfaces, In this post, I have uploaded the notes of Peripherals & Interfaces. Peripheral & Interfaces is a subject for the students of Diploma in Computer Science Engineering 2nd Semester. Share these notes with your classmates [

7	Date: / /
-3	Page No.
2	
	Atables accessed
No	DISPLAY DEVICES:
1	Hand to the territory of the second s
N	* MONITOR:
-	that display
	· A computer Monitor is an output device that display
1	information in pictorial form.
1.3	THE THE LEGIST OF PRECIOUS
John Jan	· A Monitor usually comprises the display device, circultry
10	A Monitor usually confession
	Casing and power Supply.
(N)	1 12 11 a computer Via, VGA,
	Monitor are connected to the computer Via, VGA,
	Digital Visual interface (DVI), HDMI, Display point
3	Low voltage differential signaling.
7777	· Ca
7	· A Monitor is of two types:
3	1. Monochrome display Monitor.
57	2. Display Color Monitor.
	0
100	· A Monochrome display Monitor uses only one to display
10	text and color display can display 256 colors at
3	one time.
33	One Chine
(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	· Monitor are available in Various Size like 14,15, 17,
0	13 and 21 inches:
-	
-	· An image on the Monitor is created by a
1	Configuration of dats also known as Pixel.
0)	80
1	· The clarity of image on the computer screen depend
(Ir	on three factors!
15	V. 11100 1100 1100
5	
1	
1.6	

	ate: / /
<u> D</u>	age No.
	W/
	Olyan in horizontal
1. Resolution of Screen: - The Number of	her of bixel,
1. Resolution of Screen: The Number of and vertical direction More the Num	
The shoulder is the image. The common Resolution of Computer	screen is
- The common Kesolleton of	Ja V
800×600 and 1024 × 768.	8 1
2. Dot patch: - The diagonal distance be	tween two colores
pixel on a display screen.	4
pines of a	
3. Refresh Rate: - The Number of time	DOC SECONO
pixel are Recharged so that their	glow Keman
bright.	•
	chow only digit
* Segment display! - Some display Car	1 311000
Or apparament character in	West Charles
Segment display.	
The state of the state of the state of the state of	right femilian in the second
CDT .	n loan term
CRT:	, significant to the second
a sat is a closemin time design	ned to display
· A CRT is an Electronic tube design	Same protestable of
Electrical data	
TO ST A SIST OF THE MAN	oc component
. The basic CRT consist of four Majo	of Comparence
1. Electron gun.) NOTA
2. Focussing & accelerating anodes.	
3. Horizontal & vertical deflection	m plates.
4. Evaccuated Glass Envelope.	N Say
	3.6
	No.

Date: Page No. Electrongun: - it is used for producing a strain Electron. These are used for ocussing & accelerating Anodes: tocuss beam proceeding a Narrow and Sharply Electron These one used too Horizontal and Vertical Deflection: controlling the bath of the beam. Evacuated Glass Envelope: - with a Phosphorecent produces bright spat when struct Velocity electron beam. Electron Electron beam Phosphoras Coated Screen. Magnetic focussing Connector deflection coil System electrons (cathode rays) emitted by the electron A beam of gun basses through the focusing and the deflection that direct the beam toward a Specified position on the Coated screen. The phasphor then emit a small Spal of light at Each position Contracted by the electron beam, because the light emitted by phasphor fades rapidly.

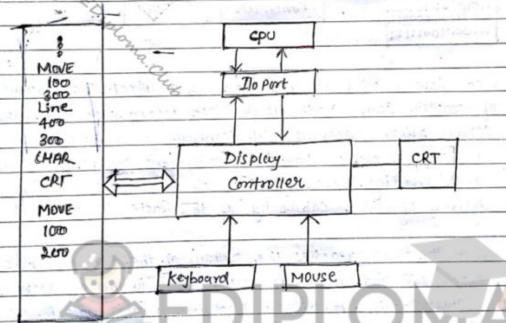
	Page No.	SCI)
	in to redraw the	
· one way to keep the phasphor glow	ing Us 10 beam of	00
bicture repeatedly by quickly di	irecting the state of	1
election park much the same	172	CP.
display is called a Refresh CR	T.	C. P
	The state of the s	
· Heat is supplied to cathode by	directing a current	4
through a coil of wire called	The filative	
control focusing Accelerating	Structure.	00
orside me duriculation	. /	4
Control focuse pagroad	Electron	
7555	beeth.	
	30.00	
		60
Heated Cothode		
Heated Cathode filament Cathode	7 7	
25.		600
- Ce		-
•		-
RASTER SCAN DISPLAY :-		
		-
A Raster Scan is the Rectangular	pattern of image	_ c.
Capture and reconstruction in		2
- A - A - A - A - A - A - A - A - A - A	Parameters	7
· In this display, The electron bea	m is swept across the	1
0		6
screen one row at a time fr	A STATE OF THE PARTY AS	-6
As the Electron beam Moves acc		€
beam untensity is on and of		- 2
pattern of illuminated spats.	picture defination us	4
Stored in Memory area is C	alled Refresh Buffer	Ę
or Frame Buffer.	332	
	E.	•
and the control of the control	8	



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Page No.			

-: RANDAM SCAN DISPLAY [VECTOR DISPLAY]:-

- → When operated as a Random Scan unit as CRT has the Electron beam directed only to the point of the Screen Where a picture is to be drawn. Random Scan Monitor draws a picture one line at a time and for this Reson also called vector display or stokewritting display or Salligraphic displays.
- · The component cline of a picture can be drawn and refreshed by a random Scan System in any Specified order.



is an Example of Randam Scan hard Copy.

43	Date: / / Page No.
· A display Controller is	Connected as an I/O peripheral
to the cpv. The display to	ouffer Memory stores the
	day list or display program
	point, lines and line plotting
The Program Contain	and brints
Program Command with	8
. The display controller	interrubt Command for
The cosping controlled	haracter and sends eligital
Plotting, lines and a	naració de verter generator:
The vertex generator	es to a vector generator.
37.5	then convert the digital
Co - ordinate value to	analog voltage for beam
elegication circuit that	displace an electron beam
writing on the CRIS ph	asphor coating.
	the state of a time of
-: Difference blw Ras	ter and Rondom display :-
1	Annual Company of the Mary of the Mary
Random (Vector) scan	Roster Scan Display
olispiay	7 0
and the same of th	
- Is Advanture of Parling and the American Bland	1. Raster display has ability to
1. Vector display only draws line	
and Character.	Display greas filled with
	solid colour or patterns.
is khore, sight state	
2. Don't use interlacing:	2. Uses interlacing.
	1 10 (mi) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3. In vector Scan display, the	3. In Raster Scan display the
beam Moved between the end	beam is Moved all over the
point of the graphic primitives.	screen one scan wheat a time
La Company of the	from top of bottom and then
7	back to top.
	2 lob.
	e con
and the second and th	

5. More expensive. 5. less 6. uses Mono chrome or beam 6. uses 1 penetration type. Mask to 7. Vector display draws a 7. Raster continuous and smooth Mathema ulines. Curved to approxima approxima pinel or 8. Editing us easy. 9. Refresh Rate depend directly 9. Refresh	
b. Uses Monochrome or beam 6. uses 1 penetration type. Mask to 7. Vector display draws a 7. Raster continuous and smooth Mathema clines. Curved to g. primicapproxim approxim pixel or 8. Editing is easy. 8. Editing 9. Refresh Rate depend directly 9. Refresh on picture complexity of picto VIDEO ADAPTER:— video Adapter is an integrated circ	display can display tically smooth line olygan and boundaries tives only by nating them with
b. Uses Mono chrome or beam 6. uses 1 penetration type. Mask to 7. Vector display draws at 7. Raster continuous and smooth Mathema clines. Curved to g. primicapproxim approxim pixel or 8. Editing is easy. 8. Editing 9. Refresh Rate depend directly 9. Refresh on picture complexity of picto VIDEO ADAPTER:— video Adapter is an integrated circ	display can display tically smooth line olygan and boundaries tives only by nating them with
Penetration type. 7. Vector display draws a 7. Raster continuous and smooth Mathema dines. 1 Curved to approximate or pixel or pixel or seculting is easy. 9. Editing is easy. 9. Refresh Rate depend directly 9. Refresh on picture complexity of pictor. VIDEO ADAPTER:— video Adapter is an integrated circ	display can display tically smooth wine olygon and boundaries tives only by nating them with
Penetration type. 7. Vector display draws a 7. Raster continuous and smooth Mathema dines. Quived to approximate or pixel or pixel or 8. Editing is easy. 9. Refresh Rate depend directly 9. Refresh on picture complexity of pictors. VIDEO ADAPTER:— video Adapter is an integrated circ	display can display tically smooth wine olygon and boundaries tives only by nating them with
Continuous and smooth Mathema lines. Curved to approxima approxima pixel or 8. Editing is easy. Refresh Rate depend directly 9. Refresh on bicture Complexity of pictors. VIDEO ADAPTER:— Video Adapter is an integrated circ	tically smooth wine olygon and boundaries tives only by nating them with
Continuous and smooth Mathema lines. Curved to approxima approxima pixel or 8. Editing is easy. 8. Editing is easy. 8. Editing of Editing of Pictor on picture Complexity of pictor of	tically smooth wine olygon and boundaries tives only by nating them with
Sines. Of primition of prime of prime or pixel or 8. Editing Prefresh Rate depend directly 9. Refresh on picture complexity of pictors VIDEO ADAPTER:— Video Adapter is an integrated circ	tives only by nating them with
9. Editing is easy. 9. Refresh Rate depend directly 9. Refresh on bicture complexity VIDEO ADAPTER:— video Adapter is an integrated circ	tives only by nating them with
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9. Refresh Rate depend directly 9. Refresh on bicture complexity of bicte VIDEO ADAPTER:— Video Adapter is an integrated circ	(/
VIDEO ADAPTER:- video Adapter is an integrated circ	is difficult.
VIDEO ADAPTER:- video Adapter is an integrated circ	rate independent
VIDEO ADAPTER:— • Video Adapter is an integrated circ	ire Complexity.
· Video Adapter is an integrated circ	untation Co
· video Adapter is an integrated circ	
· Video Adapter is an integrated circ	to a survival of the contract of
· Video Adapter is an integrated circ	Chr.
or un some cases, a recontrol that	provides digital to
analog conversion, video RAM and	(a video controller
so that dota can be sent to a	Computers susplay.
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S. Commission of the Commissio	TO STATE OF THE ST
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	and the same
Protected with trial version of Visual Watermark. Ful	2

40				
63			Date: / / Page No.	Sec. 21
1631				
6.3	1. MDA: - Monochrome Di	splay adopt	er us a Monochi	ome
6.0	Card and display on a	. TIL Mono	chrome Monitor	ut
60	is a text only stance	dord allow	ng text ousplay	at
	80×25 character · Each	character	is Made up of	
Sup Cons	a Mutix that is 9	dats wide	by 14 dat hi	ghi
ow S	yelding on effective	Desolution	02 720× 350	at
6.0	Helding On the Cive	de .	in the last of	
60	regresh Rate of 50t	12.	- North Control	
6	- SCHOOL STORY - SCHOOL	2 3 HESE		
	2. CGA: - COLOWZ Graphic	, adapted	us an early 181	9
63	Video adapter that	replaced 1	Isnochrome and	way
6	first introduced in	1981 . CGA	has highest Reso	lution
6-3	of 640x200, colowr d	epth of 4b	it and Support	
63	5 16 Colows	0		
50	S 10 COLOUR		- Ter Turk	
	1/2 01 ² 2 1/100 - 111 - 2 - 2	in a cla		ten
3	· VaA: - video graphic array	US & 870	nautoc varia 13	
7-3	display up to 640x 480	pixel on	the screen with	n Up
53	to 16 different Colows	s at a ti	me un lower	
- F	Resolution 320x 200	pixel the S	creen can show	upto
2	256 Colour at once	4. 1 m	nich Built	
-	epito:	night of Street	SECHERAL AND	
e 4.	SV6A:-		* .	
1		4		
-	(37)			
-	CEDIDI			
31				
7	DYOLVIE	-		
*.	Resolution: - Resolution is	a Measu	ire used to des	cribe
1	the sharpness and clearity	of an vi	mages or bictu	re
	and is often used as a	10. Note	c are Judaine	the
-				
-	quality of Monitor printe	, digita	umage and	<u></u>
	various other Hardwar	e and so	House technolo	gies.
			no.	

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- Basic Concept of PAL and NTSC :-

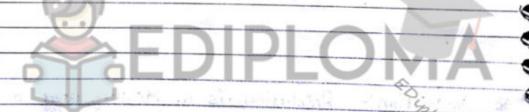
- · PAL (Phase alternating Line):-
- -> PAL is the colour encoding conversion standard that is affect the Visual quality of content viewed on analog television and to a Much Smaller degree Content Viewed on HDTVS.
- -> St was invented by walter Bruch at telefounken
- Abs in Germany during the 1960s.

 PAL uses a screen resolution of 720×576 pixels

 and a Refresh rate of 25 frames per second.

- Resolution:

Resolution is a Measure used to describe the Sharpness and clearity of an image or bicture and is often used as a Netric for juding the quality of Monitor Printer, digital cimage and Various other Hardevare and software technologies.



13	Date: / /
S	Page No.
CO	
0	PRINTER:
9	
	-> Printer is the Most important output device which is
S	used to print information on paper.
S	OSERCE 10 PAINC CHICATALLESS
0	-: There are two type of printers: - 3
00	- West Cole 400 Agre &
पार	1. Umpact printer.
00	2. Non - impact printer:
0	
	Impact printer:
67	The printer that print the character by striking
43	against the ribbon and onto the papers
13	Ampact printer.
10	S 22 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 200 1 2 2
3	-: CHARACTERSTICS OF INPACT PRINTER:-
3	76
3	· very low consumable costs.
-	· Impact printer are very Noisy.
10	we have printing due to low Cost
	· There is physical contact with the paper to produce
1	an image.
1	7 17 16 18 18 18 18
1	Impact printer are of two types:-
1	1. character printer
	1. Line printer.
10	CHARACTER PRINTER:
	- Character printer one printers which print one character
	- Character princes we princes some
1	at a ctime.
-	
1	

Date: / / Page No.	24
These are of further two types:	
· O.	2
1. Dot Matrix printer	6
2. Daisy Wheel.	6
	60
DOT MATRIX PRINTER:-	2
- In Market, one of the Most popular printer is	el
col itains printer because of their case of	6
Printing feature and economical price.	7
- Fact	~~
- Each character printed is in form of portern of dat's	57
grad head consist of a Nation of him of size	50
25, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	SIN
- Character that is why it is called dot matrix	6
printer ? Email of the an entrement of the	•
The state of the s	6
Advantage:	CV
1. Inexpensive	6
2. Widey used.	-
3. Other language Character can be printed.	-
	1
Disadvantage: -	1
1. Slow speed. I was so some antique and	1
2. poor quality.	Em.
	6 1
DAISYWHEEL PRINTER:-	6
Head is lying on a wheel and pins corresponding to	5
Character are liked petals of dries (However some)	2
that is Why is called Daisy wheel printer.	- N
The same of the printer of	

2					
50				_	Page No.
0					
50	Advantage			11 11	E. Maria
90	· More rel	iable than	DMPs.	S	of the control of the
3	· Better qu	iality.		Se .	- 538 61
CP	· The tont	s of charac	ter can b	e easily	changed.
-	0			10	tal .
	Disadvanto	ge:-		of particular	8
70		nan DMPs.	oraz di s	1 1230	aread country
10	· Noisy		the set	Sulpin	son the son
13		sensive than	DMPs.		
13	11-10-34	20110 11140		11.49	Laki Kasa I
3	* LINE F	PRINTER: -			
3		ton and bri	intest bihi	ch print	one line at a time.
13	· These on	1 4:00 +16	1.	in and	55 1. 20. 52.
1		1 printer			comment of the
9	. 69	in printer.			Stratell
9	17 Criq	E PIMOC			
3		Pr	rinter		Same of the Same
		/	1111		dinacada d
3	e Aune Schan		ar man s o'		and the course
-	197 (30 Julium)	impact	3 3 3 3	Non-Pr	
		Impaca			sen inequipm delector
-3					Y wind A . b
-		L'and		1.000	
-	Charac	ter line	(13.32	Printer	Unkjet Printer
-					
-		-+			
1		CH 10 (C)		1	
3		ras Creo Li	orace in	1	a Quintiera
	Dot matrix	Daisywheel	Drum	chain	
	Printer	Printer	printer	Printer.	a.C
				p Mil.	WIN COUNTY (NO.
-		0			1000
-					25,63 63

	Page No.
DRUM PRINTER :-	
· This printer is wike a drum in sh	abe sout called drum
Printer.	7
· The surface of dram is divided	into stumber of track.
· Total track are equal to size of	paper ive for a paper
wichth 132 character	
· Drum printer are fast in speed	and print between
300 to 2000 lines per Minute.	maid 2
12 C 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1	the sale and a sale of
-: CHAIN PRINTER :-	
A second	
-> in this printer, chain of char	actor Set are used
So ito is called chain printer	
> A standard character set N	lay have 48, 64, 96
Character.	Statistical Charles
·CL	£5
Advantage: -	£5
1. Character fonts can easily be	changed.
2. Different language can be	used with Same printer
Disadvantage:-	67
1. Noisy	
a. Do not have ability to print	any shape of character.
Arthur	
-: NON-IMPACT PRINTER:-	
· The printer That print The ch	haracter Without
striking against The ribbon	
are couled Non-impact pri	
we can a part of the	ma a
-> These are two types: -	Eq. 6
7 3/100	

2.

63		Date: / / Page No.
1		rage No.
0	LASER PRINTER :-	
50	. These are. Non compact printer	They use lasor dight
-	to produce the dat needed	to form the characters to be
79	Printed on a page.	The state of the s
70	CEUIPL	V 3YTA
500	i-Advantage: :-	
9	· Very high speed .	
00	· very high quality output	
0	· Give good graphics quality.	
6222222	" Subbaset Many fonts and d	different character size.
-		
0	Disadvantage:	
3	· Connot be used to produce Made	tiple. Cobies of a document in
9		8
3	a single Printing.	
13	INISET PRINTER:-	
-	· Inkjet printer are nath impact	character printer based on
3	a Relatively New technology. It	ney print character by
1	Spraying Small drop of int	s on the paper inkjet
1	printer produces high quali	ty output with presentable
1	teature.	0
1		
	Advantage:-	
-	1. High quality printing.	() NTA
	2. More relaible	
		0;
	Disactiontage:	
	1. Expensive	
	2. cannot be used to produce	
7777	document un a single prin	ting.
		192
05302	Protected with trial version of Visual Watermark. Fu	Scanned by CamScanner

I hope you found these notes informative $\hfill\Box$ Help your classmates by sharing this post with them $\hfill\Box$