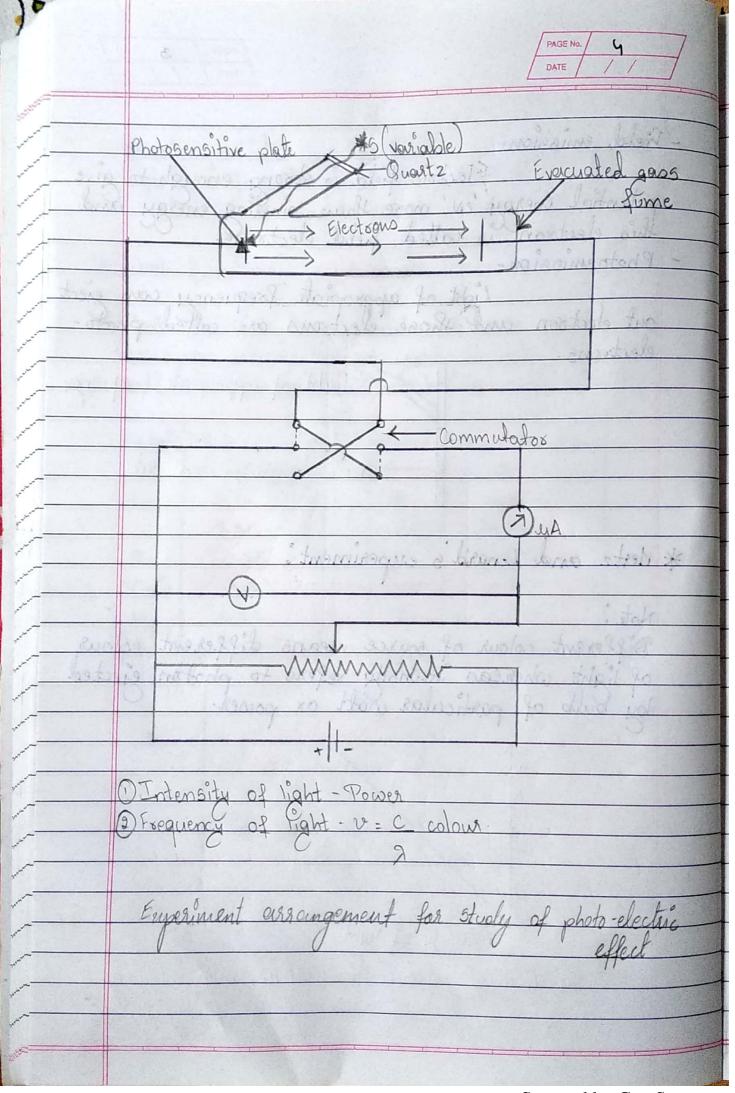
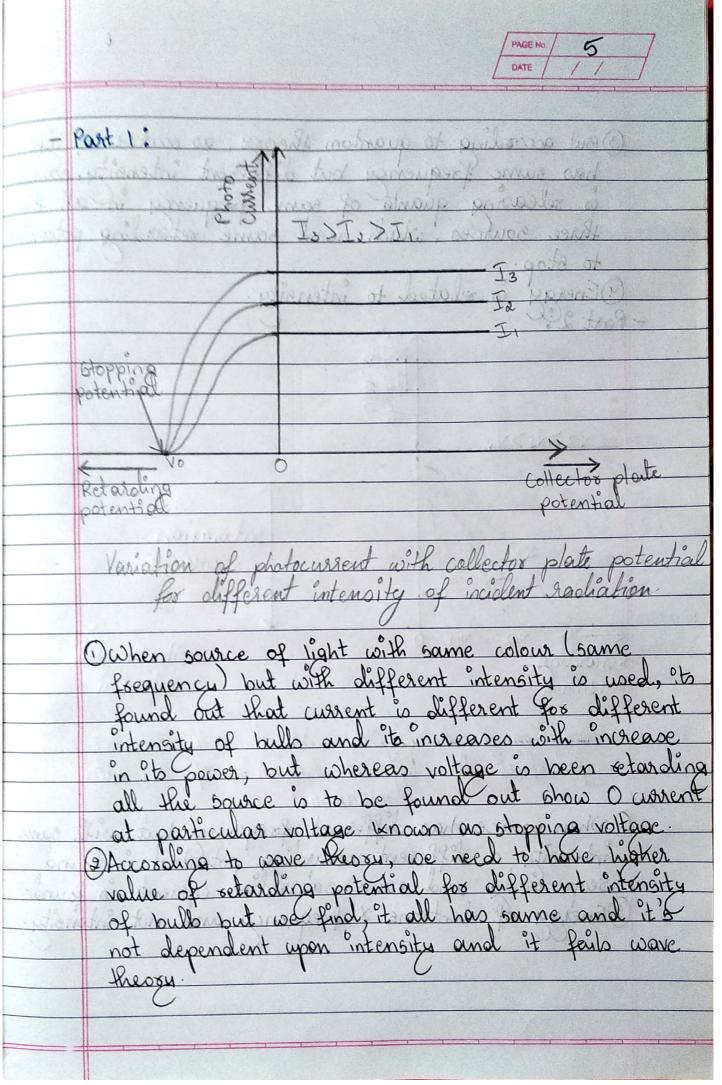
				PAGE No. DATE		7
	Chp-11: Dual 1	- 31 00 h	of Light	t and t	1 atter	
*	Nature of light:	sols.	1 born	1-14=	4.14	
	Two types of noting	she osa		0 0/	2 xtxoù x	
	Two types of nature -	vie me				
od a	Proves emperiment interference patt	Doelx has	wave, e	hegay co	ntinuation	n.
ork o	Proves emperimen	nt such	as dif	fraction	of light,	
	interference patt	tern, etc.	Souther	sm fo	20/0	
	montanul stable	LotoM	71	nus strace	Jol 9M	
	6	20.1917		φ		
	88.11	37/		H1-8	1 65	
	PNIA	3//		08-8	X	
	0+:N	AN	$\rightarrow$	06.6	9/1	
	@Matter-	1. iR		FI-N	M	
	in straight line	nergy po	alxeb, n	nass, sho	upe, move	s
	in straight line	and for	nite du	Mension.		
	The subject of the same	337				
		35/	F			
	p. with make the	75		1 14		
- E-7/4-K	7	7		10000		
	Planck's idea -					
	Light	t travels	in term	s of ene	194 pad	ets
	and there are call	ed as qu	ianta.	This quan	nta has	
- 0	specific vibration	due to	column h	alor where	rent colow	<b>\</b>
	and frequency plands s constant	1 6 18	equence	y, n is r	ownhen o	0
			1		, , , ,	+

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	quanto particles:  Equation for Einstein for K.E of e.,  => INE = hf - \phi and == hv.				
*	Work	function:	1,970 3	20 ha 39 00913	cal
	Work Lone Surfac	function is the on an electron e of metal w	minimus to eject	m work require	from the
	Metal	Work function	Metal	Work function	
	Cs	2.14	AI	4.28	
	K	2.30	Mg	4.49	
,	Na	2.75	Cy	4.65	
	Ca	3.20	aA.	4.70	
	Mo	4.17	Q:	5.15	4(2)
Dies	Ph	4.25	Pt	6.66	
	201	- watering it	1 BA	and blooms a	0
		EI		E3 Velocity	
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			4	10000	
				Trootig	0919
dist	2 10	As Jo amas.	2 Abres 5	defending	
	Therma	l electrons-	up as he	165 " sep 1965 94 1	VAD
1	h h	Enea,	ay given	is thermal	enegau
	and H	my show therm	onic emi	ssion.	CC
10	didawa	Of the Marriage	29 829	trustimes of Ann	1/

	PAGE No. 3 DATE //
1	Reld emission-
	Electric field is strong enough to give
	potential energy ev' more than binding energy and
	potential energy ev more than binding energy and this electron is called field electrons.
-	Photoemission-
	out electron and those electrons are called photo-
	out election and shope elections are called photo-
	electrons.
	Light of appropriate frequency
	> Electrons are sected out
*	Mestz and Lenard's experiment:
4	THE STATE OF THE S
	Note:
	Different colour of source means different colour
	of light whereas intensity refers to photon ejected
	Different colour of source means different colour of light whereas intensity refers to photon ejected by bulb of particular watt or power.
	**
	3
	· B
1	3/
	Intensity of light
	Variation of photoelectric current with intensity
	of light





		PAGE No. 6 DATE
arthur and a state of the state	3 But according to quantum theory has same frequency but diff	exent intensity, source
asturanta de la constitución de	has same frequency but diff is releasing quanto of same three sources, which need sou to stop.	re retording potentiel
arthered -	To stop.  (4) Energy is related to intensity  Part 2:	
Arthur Market Ma	Challed Challed	
netter and the second		1 10
Automotive Comments of the Com	37 3	aturation
,	Retarding	Collector plate
hos	potential polarie current	
Proses	Owhen source has different frequent	
1,974	Owhen source has different free intensity a different retarding respectively and same satural Denergy of electrons & frequency	potential is found
9254	(3) Energy of electrons & trequenc	a and not intensity

	PAGE NO.   1 DATE / /
*	Threshold Resources:
	Threshold frequency:
-	Threshold frequency is that minimum value of
	frequency that supply sufficient energy to remove
	electrons from the surface.
	hrs = 0.
*	Failure of wave theory in P.E emperiment:
	According to wave theory higher amplitude is
	higher energy but experiment shows that ever
	larger amplitude could not give higher energy.
-	The same intensity but to different frequency
	(colour) by different energy could not be explained. This concept of threshold frequency
	emplained. This concept of threshold frequency
	could not be employed.
-	Concept of wavefront, (i) toolx time to give energy
	simultaneously to many electrons and (ii) many
	electrons be sected together but emperiment shows that ejection is instantaneous and not for a
	long time or large quantity which in contrary of
	long time or large quartity which in contract of
	wave theory.