Expt. No. 4 Page No.	
Polarizationard Breustersangle	
Aim :	
To determine Brausters angle for a given pair que using polarized mono chromatic light.	f wedia
Formula used:	
Strois = pez (Snell's law)	
$\tan O_B = \frac{1}{\mu_1}$ where $O_i^{\circ} = a_1$	ingle midence
	gle of, flection extersangle
Question: Wheat is the working principle of po	planoid
Answer: When we one wearing polaroid god or sing cusses, the surface blocks glare by filtering out the hearizon light waves that don't fit throng Chemical laminate pattern.	the
T 1 / C'	

Teacher's Signature _____

hence the brewster angle for a given point of media using polarised light is determined.

Table! Determination of Brewster's angle from virtual experiment

S. No.	Medium	$\mu_{\scriptscriptstyle \rm I}$	Material	H2	0,0	θ_z^o	Brewster's angle (withol)	Breusteis angle (espected)	% ever
	Air	Y	Topay	10607	58014	58.14	58.19	28010	0.057
2		-1	crowns	1.52	56.69	56.69	56.6d	58065	0.055
3		1	Hentglass	1.57	51.53	57.53	57053	57.50	0.043
	Carbon			1.607	58.12	58.12	58012	58.081	0.067
5	di	1.00	crown	1.52	56.68	56.68	56.68	\$6.633	0.083
6	di Oruide	1.001	flent	1-50	51.52	57.52	57.52	57-479	0.071

Table 2. Breuster's angle from visualization tool

S. No.	Mediun	Material	Helui set an uno tool	Browsters angle (expense)	Breuntas angle (expected)	Sun OB, + OB=	Bremoud angle (nos.)	Sum 082+ 0'02=
1	Aer	Topas	1.607		OB = 58-1			
2	Topay	AM	0.62	NaA	O'BO = 31.8		0'B2 =31	

for % error = [experimental habe - experted value] x100
expected nature

in John James of the Sains (replented kay)
(polarized) Oi=OBI 02





