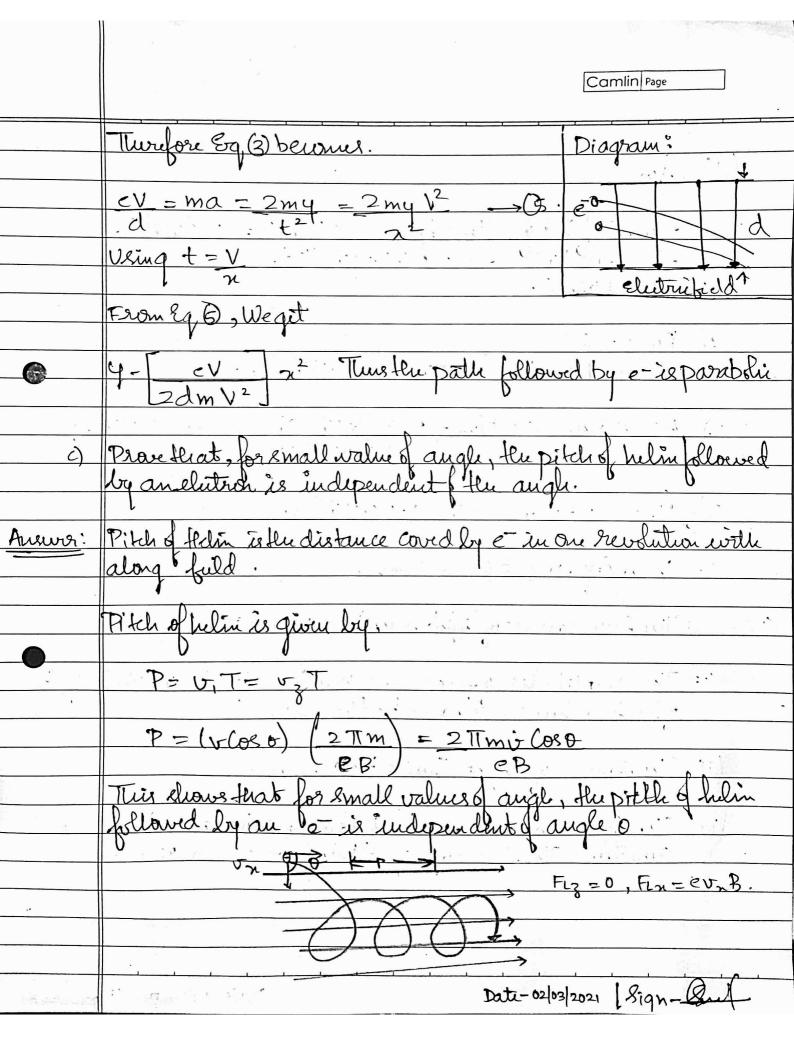
Camlin Page Gr. H. Raisoni College of Engineering 2 Management
Waglishi Pulue CAE - 1 Winter TERM-2020 (Online) Department -Term Section - 2020 Datid Enamination - 02/03/2021 Subject Name/Code-Engineering Physics (UBSL 101) POIL NO - CTO Name - SWAYAM PRAMOD TERODE Swp. a.) (tates give formula for C01 (i) Coulomb force in case of electron and proton: The force of attraction or repulsion between two charged bodies is directly proportional to the product of their charges and in proportional to the square of the distance between them. The protons and electron have intrinsic property called charge.

aprilon= 1.602 × 10-19 C 9 elutroc-1.602 x 10-9C. Formula of Coulomb force = F = K 9,92 OR F = 9,92 4TT EOS2 usure F= electric force, 12 = Coulomb Constant, 9,9= Charge 91 = distance of separation. Date-02/03/2021 Sign- Rul

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(ii)	losso to losso in cased characters.
(11)	Lorentz force in case charge q?
Soln:	The force enerted on a charged particle of moving with volocity of through an electric field E and magnitue field Bit known as foreits force.
	velocity or Horonal an electric hild E and magnitu
	fuld Bit known as breutzforce.
	F=qvxB where q is charge, vis velocity and
	F=qvxB where q is charge, v is velocity and Bis magnitue field density.
	OR O
	FL=c(\$\varphi\varphi)=evBSino.
<i>(</i> , )	
( <i>P</i> )	Do I al a collection of the little of the li
	Chow that the path of electron enturing an uniform electric field at right and to the field line and travelling through the field is parabolic.
	the fata is pointout.
Anguna:	Lettre eletric field be Fewitter Feutial V and electron entering
	at 90 and distance traveled d, and 2 points ared
	distance for.
8 72 4	0.
,	F=eE=eV -1 and F=ma -> 2.
	a
	From Eq. 0 16.
	$eV = ma \rightarrow (3)$ .
# · · ·	a nalto at his a la or a l'al
	A force is applied flux electronnust accelerate in its direction and a= 24 - (1) [used 4 = ut + [al <sup>2</sup> ].
	will az 24 - A [ Used 4 = ut+ lat2].
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	2000 0-100/2021 1/d x



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(a).	geven.
	Eletric field intensity = 0.24 KV C = 240V (.
***	e= z 1.6 × 10-90C, m = 10.1 × 10-31kg.
	E= 240V (.
1)	Force = e[
1. 3. 1	$= 1.6 \times 10^{-19} \times 240 = 3.84 \times 10^{-17} \text{ N}$
	D. D. A.
2,)	Acceleration, a = F/m = 3-44x10-17N = 4.219x10 m/c.
	q.1×10;31 129
3.\	K.E=1/2mv2=eV=1.44×10-17J.
)	
An	Velouty, v = 5.625 × 106 m/s.
	· ·
(02. a)10	Tu two sources of light must be coherait.
/	0 /
(13)	The amplitudes of the waves must be equal is. He brightnesse of the two sources should be the same.
	Itu two sources should be the same.
( i ii)	The lources of light should be narrow.
	[POTE TO THE SET OF THE TOTAL CONTROL OF THE SECOND SET OF THE SECOND SECOND SET OF THE SECOND SECOND SET OF THE SECOND
(vi)	The Sources should emit light houses in marly the same direction. The source of light house be monochromatic.
	Curecuon. In source of light must be monochronaly.
100000000000000000000000000000000000000	
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A Company	Date-02/03/2021 Sign- Dul

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(P)	Destructive interference takes place when waves come together
	In luch a manuer their completing and early office out
-	When two waves destructively interfere, they must have the
	Chen two waves destructively interfere, they must have the
	The condition for constructive interference is that the phase différence between the two waves should be an even integral multiple of n pr180.
•	différence between the fevo waves should be an even integral
	multiple of h prico.
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