	DATE:
where 'e' is the charge on election driving force on the droplet due to of strength E.  Dividing equation (1) by (2)  V1 = mg  V2 Fe-mg  The values of V1 and V2 are recorded	and Ee is the upware applied electrical field
Dividing equation (1) by (2)	ndulada.
The values of v1 and v2 are recorded microscope.	with the help of
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•	Long Question
-	LOI 9 QUISIOIT
*	Introduction
•	In 1909, Millian determined the charge on electron by a simple
1	arrangement.
0	Composition
Ť	The apparatus consist of a metallic chamber. It has two parts. The chamber is filled with air, the pressure of which can be
9	adjusted by a vaccum pump. There are two electrodes A and
9-	A'.
	Experiment
•	A fine spray of oil droplets is created by an atomizer. A few droplets passes through the hole in the top plate and
-	into a region between the charged plates, where one of
•	them is observed through a microscope. This droplet, when
	them is observed through a microscope. This droplet, when illuminated prependicularly to the direction of view, appears
	in the microscope as bright speck against a dark
	background. The velocity of the droplet (VI) depends upon its
	weight, mg.
	explanation
	The velocity of the droplet (V1) depends upon its weight, mg.
	V100 mg
	where em is the mass of the droplet and eg is the
-	electrodes is ionized by X-rays. Now, connect A and A'
	electrodes is ionized by X-rays. Now, connect A and A' to a bottery which generates an electric field having a
	strength E. The droplet moves upwards against the action
	of gravity with a velocity (V2)
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gas are basically protons & cathode ray are fast moving electron. As protons are 1836 times heavier than electrons therefore the erm value of hydrogen gas positive ray is 1836 times smaller than that of cathode rays.	6
therefore the elm value of hydronen and maitive ray is	0
1836 times smaller than that of cathode rays.	•
(11)	9
Necessary to decrease pressure	9
At high temproture greater number of molecules creates hindrance in way of elections (althode rays) pass through tem. Therefore, it is necessary to decrease the pressure in alis charge tube to get cathode rays.	1)
hindrance in way of elections (athacle rays) pass	7
Description is discharge trube to set cottook roun	0
pressure in all anarge ruse to get carrose rays.	
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required to Make number	-
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i)C	59	
A (iii) A (iii)	Necessary to degreese p	
iv) C		
A (v		
Question \	^2	
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Short Our	stions	
allor to doc	SCIOL 12	
diff blu free	Make number	
The frequency is the number	A wave number refers to the sp	
of waves that pass a	tieguency of a wave over a speciti	
oiven point in one second	Unit distance.	
The frequency unit is	Wave numbers are usually measured	
measured in hertz.	in units of reciprocal meters.	
V=C/Z	$\overline{V} = 1/\Lambda$	
	1	
(i)		
Justification		
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