

## LGS GROUP OF COLLEGES

A PROJECT OF LAHORE GRAMMAR SCHOOL

Name:_	Days Mehde Class: (Ku-eng) Roll No.
Subject	: Chemistry. Test No. Date: 21-11-24
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	Question no 01/2
	e/m value of Protons:
	A single Hydrogen atom has two particles proton and electron while the streams of
	proton and electron while the streams of
	election are called cathode rays. Elections have a much smaller mass
	compared to Protons, and the e/m value/ratio is
	inversely proportional to mass.
	The mass of a Proton is almost 1836 lines
	greater than of an electron so, The e/m value obtained from the rive H gas is 1836 times less than that of cathode.
	The e/m value obtained from the rive H gas
	is 1836 times less than that of cathode.
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	ressure:
	In a discharged tube it is necessary
	In a discharged tube it is necessary to decrease pressure to produce cathode rays
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because at normal Atmospheric Pressure, the
gas particles are two density packed. When the Pressure is reduced Lusually
below 1 mm Hg) the gas becomes less dense and the electrons can move freely
and the electrons can move freely

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## Frequency | Wave number

The number of wave cycles that pass a given point in one second is called Frequency is measured in Hertz or radian per unit distance.

The number of wave length per unit distance is wave number

It is measured in cycle per unit distance de radian per unit distance.

## <u>Juestion no 03</u> Militars oil drop Method:

In 1909. Milikans determined the charge on electron by oil drop Method.

Apparatus:

Metallic Chamber? The apparatus

	parts. The chamber is filled with air and the
	presence adjusted by the vacuum pump
	Electrodes: There are two electrodes
	used to generate electrical field.
	• The upper electrode is connected to +ive terminal of battery. It (i) has a hole in it • The lower dectrode is connected to -ive
	erminal of battery.
	Stomizer:
	A fine spray of oil droplets is
	reated by an atomizer of few drops passes through the hole in top plate in the plates.
	Microscope:
-	One of the displits is observed
	through a microscope. This droplet when illuminal
	perpendicularly to the direction of view appear
	in the miceo scope as a bright speck against
	dark background. Working:
	Absence of Electric field:
	falls under the force of gravity without applying the electric field.

