

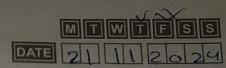
QUESTION NO.03 LONG AUESTION Millikan's oil drop method

Millian determined the charge on electron by a simple arrangement in 1909.

The apparatus consist's of a metallic chamber. It has two parts. The chamber is filled with air, the pressure of which can be adjusted by a vaccum pump. There are also two electrodes A and A'.

*Experiment:
A fine spray of oil droplets





an Casses ' through ween them through microscope. view, appears bright as background dioplet (Vi) depends upon weight. V1 × mc depends upon droplet the mass of ne acceleration droplet mo the action





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Where 'e' is the charge on electron and Ee is the upward driving force on the droplet due to applied electrical of strength E. Dividing equation (1) by (2):- V= mg V2 Fe-mg The values of V1 and V2 are reached and recorded with the help of a microscope.	