NAME:Nwogu Gospel MATRIC NO: 19/ENG06/038 DRPARTMENT: Mechanical Engineering

Name: Nulo(20 GosPEL MARIE NO: 17 ENGO6 038 DEPT: MECHANICAL ENGINEERING. Dewton's Second law of motion States that bion of an object as Provided by a net force is directly, Proper trendly to the magnitude on the net force and int Propertional to the mass of the object. erSely Therefore, on entering the field, there is a Vortical clownword force acting on the electron This is be Cause electric field and the electric force acts on the ollosite clirection as the electric field and the electric field Strength and Q is the charge of the electron. No forle acts perizontally books the magnitude of acceleration is gotten Using newton 2nd new. F=mq where m=mass, F=forle $n = \frac{1}{m} = \frac{2q}{m} n = acceleration$ => 1 = 50 The direction of a is downward Just like the way forces & is directed before according to Newton's law, force is directly Propertional to acceleration. (2) flectric field is the region around a charge in which The ther Charge Can experience electric torle. It the lis Positive, the direction of electric field text Change and electrice force are the same when the test charge Degobile, the direction of is appointe electric pot a Single Nector Quantity associated with Point in Space, this is Called the Vector field. Therefore x an electric field exist within a Conclue the field exects a farle in every charge in the For

Conductor, Cowing the force energes to more This explain s the theory of electric Current Flow. flectrics Current is the flow of electric charge E=E where E= Electric Field Q F Ce Q = Charile