Ques.

An electron of mass m and magnitude of charge |e| initially at rest gets accelerated by a constant electric field E. The rate of change of de-Broglie wavelength of this electron at time t ignoring relativistic effects is:

$$a=rac{ar{F}}{m}=rac{|arepsilon|E}{m}$$

$$\text{V} = at = \tfrac{|e|E}{m}t$$

$$\lambda = \frac{h}{mV} = \frac{h}{|e|Et}$$

$$\frac{d\lambda}{dt} = \frac{-h}{|\epsilon| E t^2}$$