

$$\therefore dl = v \times dt \quad \text{--- (1)}$$

2. (b) as

$$dq = n A v \cdot dl \cdot q$$

$$dq = n A q v \cdot dl \quad \text{--- (2)}$$

As,

$$I = \frac{dq}{dt} \quad \text{--- (3)}$$

Equating (1) and (3)

$$I = \frac{n A q v \cdot dl}{dt}$$

$$I = n A q v$$

So,

$$v = \frac{I}{n A q}$$

Substituting values

$$v = \frac{1}{(1 \times 10^{25})(1 \times 10^{-9})(1.6 \times 10^{-19})}$$

$$= \frac{1}{1.6 \times 10^{-4}} \times \frac{1}{10^4}$$

$$= 0.625 \times 10^{-4}$$

$$= 6.25 \times 10^{-5} \text{ ms}$$

$$q = 5t e^{-10^3 t} \text{ C} \quad \text{--- (1)}$$

a) $i = 2$

Differentiating (1) w.r.t. 't'

$$\frac{dq}{dt} = \frac{d}{dt} (5t e^{-10^3 t})$$

$$= 5 \cdot \frac{d}{dt} (t e^{-10^3 t})$$

$$= 5 \left[t \cdot \frac{d}{dt} (e^{-10^3 t}) + e^{-10^3 t} \cdot \frac{d}{dt} (t) \right]$$

$$= 5 \left[t \cdot e^{-10^3 t} (-10^3) + e^{-10^3 t} \cdot 1 \right]$$

$$= 5 \left[e^{-10^3 t} (-10^3 t + 1) \right]$$

$$i = 5e^{-10^3 t} (1 - 10^3 t) \quad \text{--- (2)}$$

b) Now, differentiating (2) w.r.t. 't'

$$\frac{di}{dt} = \frac{d}{dt} [5e^{-10^3 t} (1 - 10^3 t)]$$

$$= 5e^{-10^3 t} (-10^3) + (1 - 10^3 t)(5e^{-10^3 t})$$

$$= 5e^{-10^3 t} \times (-10^3) [1 + 1 - 10^3 t]$$

$$\frac{di}{dt} = -5 \times 10^3 \times e^{-10^3 t} [2 - 10^3 t] =$$

Again differentiating w.r.t. 't'

$$\frac{d^2 i}{dt^2} = \frac{d}{dt} [-5 \times 10^3 \times e^{-10^3 t} (2 - 10^3 t)]$$

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