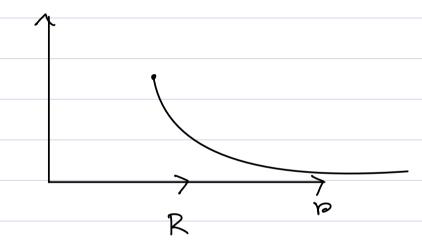


$$\oint \vec{E} \cdot d\vec{r} = \frac{\text{Venclosed}}{\text{Eo}}$$

E

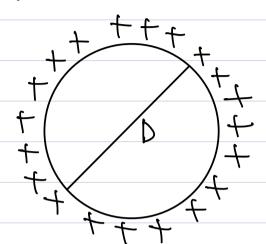
$$E \propto \frac{1}{p^{\gamma}}$$



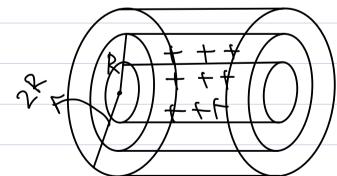
Chapter 23

17,24,25,27,28,20,34,47,40,52

Tuesday Online Class { evening}



b) 
$$\varphi = \oint \overrightarrow{E} \cdot \overrightarrow{d_5} = \frac{q_2}{\epsilon_0}$$



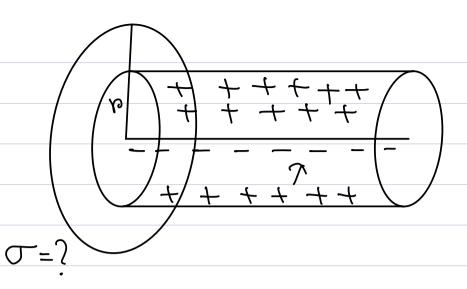
$$\oint \vec{E} \cdot \vec{ds} = \frac{q}{\epsilon_0}$$

$$= \Rightarrow f \cdot 2\pi r f = 0$$

b) 
$$E \cdot A = \frac{q}{\epsilon_0}$$

=> 
$$E.2\pi cr L = \frac{\lambda L}{60}$$

$$E = \frac{\lambda}{2\pi (2R) \epsilon_0}$$



$$EA = \frac{\Lambda L}{60}$$

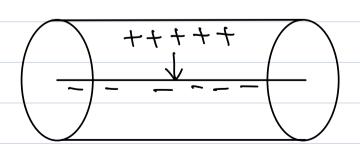
$$\Rightarrow E \cdot 2\pi n L = \frac{\sigma}{60}$$

$$\vec{Q} = \frac{q}{A}$$

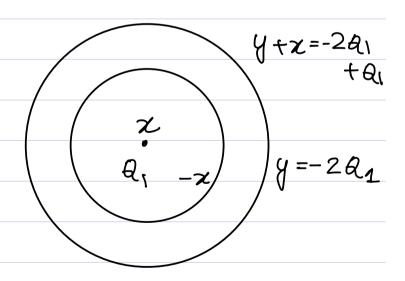
$$\vec{Q} = \nabla A$$

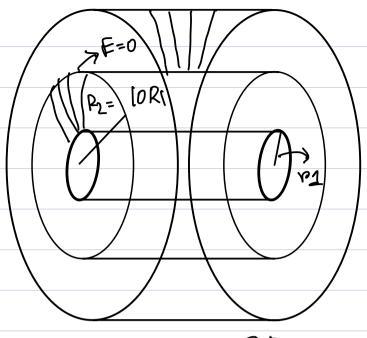
$$\overrightarrow{E} = 0$$

$$\Rightarrow \overrightarrow{E_{wine}} + \overrightarrow{E_{cylinder}} = 0$$



$$= \frac{\sqrt{K}}{\sqrt{K}} - \frac{2}{\sqrt{K}} = 0$$



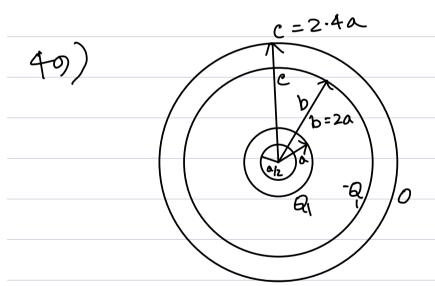


$$E \cdot 2\pi v_0 L = \frac{Q_1}{\epsilon_0}$$

$$\Rightarrow F = \frac{QI}{2\pi \times (20R_i) + 6}$$

$$c)$$
,  $d)$ 

Edisc= 
$$\frac{\sigma}{260}\left(1-\frac{2}{\sqrt{24R^{2}}}\right)$$



$$E = \frac{1}{4\pi\epsilon_0} \cdot \frac{9^{\circ}}{R^3} ; \quad r \leq R$$

$$E = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{r^{\gamma}} ; r > R$$

a)

b) 
$$E = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{a^3}$$

c) 
$$E = \frac{1}{4\pi\epsilon_0} \frac{\alpha_1}{(\alpha^{\gamma})}$$