Electric Field due To disk of charges; where I is the radius of ring R is The radius of disc Electric field due To ring of charges is Eving = $\frac{K9.7}{(2^2+R^2)^{3/2}}$ { $\frac{1}{(2^2+8^2)^{3/2}}$ { $\frac{1}{(2^2+8^2)^{3/2}}$ } $\frac{1}{(2^2+8^2)^{3/2}}$ } $\frac{1}{(2^2+8^2)^{3/2}}$ Surface charge density is given by $\sigma = \frac{dq}{dA}$ or $dq = \sigma. dA \rightarrow 0$ Area of circle is given by A = 512 differentiale both sides. dA = d (Tr2). dA = 2Trol. Eubsituling in equation O dq = 0. 2 nrdr

Substituting The values of dq in equation (A)

$$de = \frac{k \cdot 62\pi i dt \cdot 7}{(2^{2}t^{2}t^{2})^{3/2}}$$

Integrating both sides:
$$\begin{cases} de = \int \frac{k \cdot 62\pi i dt \cdot 7}{(2^{2}t^{2}t^{2})^{3/2}} \\ e = k \cdot 62\pi i \int \frac{r}{r} dr \\ e = \int \frac{r}{r} dr equation \end{cases}$$

$$\begin{cases} \frac{1}{r} dr = \int \frac{r}{r} dr equation \end{cases}$$

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A disc of radius 3m contains a total charge of 480 nc a) what is the charge per unit area? b) what is The electrice field 25cm away from centre of disco 0 = Q 0 = Q $0 = \frac{480 \times 10^{-9}}{5 \times (3)^2}$ 0 = 16.97 × 10 9 L/m2 (6) 4 = 0 [1-Z Z+R2] $= \frac{16.97 \times 10^{6}}{2 \times 8.85 \times 10^{12}} \left[1 - \frac{0.25}{(0.25)^{2} + 3^{2}} \right]$ = 880 N/C