

S.K.N.R GOVT ARTS & SCIENCE COLLEGE JAGTIAL

DEPARTMENT OF PHYSICS

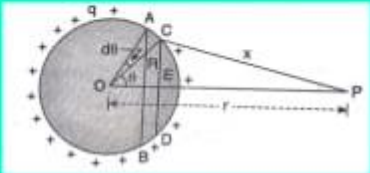
2021-2022

BEST PRACTICES

Department of Physics has conducted the best practices to the Students to enable the students to get more information through the online platform for the academic year of 2021-2022.

Electrostatics

So potential at P due to the charge on the ring

$$dV = \frac{1}{4\pi\epsilon_0} \frac{dq}{x} \text{----- (2)}$$
$$dV = \frac{qs\sin\theta d\theta}{8\pi\epsilon_0 x} \text{----- (3)}$$


From figure $x^2 = R^2 + r^2 - 2Rr\sin\theta$

Differentiating this equation. We get

$$2x dx = 2 R r \sin\theta d\theta$$