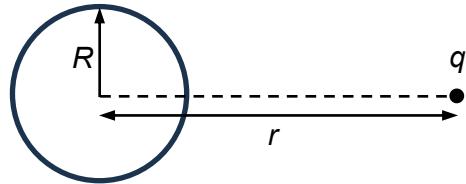


- 21** A charged conducting sphere of radius R has an electric potential V . A particle of charge q is at a distance r away from the centre of the charged sphere.



What is the magnitude of the electric force acting on the particle due to the charged sphere?

A $\frac{qV}{R}$

B $\frac{qV}{r}$

C $\frac{qVr}{R^2}$

D $\frac{qVR}{r^2}$