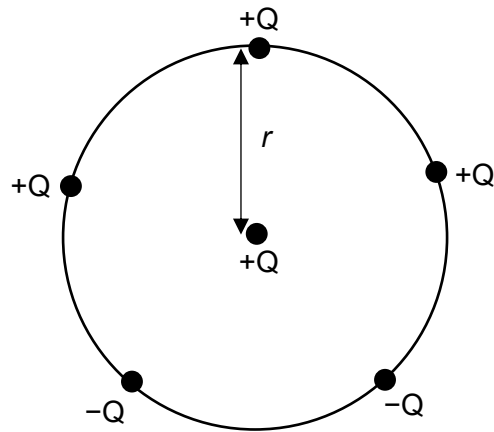


- 19 A point charge is surrounded by five charges of equal magnitude at distance r as shown in the diagram.



What is the work done to remove the charge at the centre to infinity without a change in kinetic energy?

- A** $-\frac{Q^2}{4\pi\epsilon_0 r}$ **B** $\frac{Q^2}{4\pi\epsilon_0 r}$ **C** $-\frac{5Q^2}{4\pi\epsilon_0 r}$ **D** $\frac{5Q^2}{4\pi\epsilon_0 r}$