

- 19 X and Y are two identical conducting spheres separated by a distance d . X has a charge $+6\ \mu\text{C}$ and Y has a charge $-2\ \mu\text{C}$. The electric force between them is $-F$ (i.e. attractive). The spheres are touched together and are then returned to their original separation d .

The force between them now is nearest to

A $+F$

B $-F$

C $-\frac{F}{3}$

D $+\frac{F}{3}$

