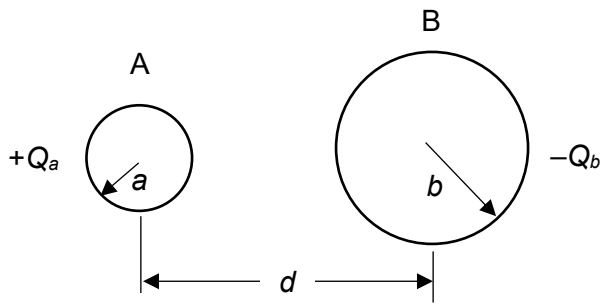
20 A and B are two large conducting spheres, of radii a and b and carrying charges $+Q_a$ and $-Q_b$ respectively. They are placed a short distance d apart.



Which of the following statements about the magnitude of electrostatic forces F, between the spheres is true?

A $F = \dfrac{Q_a Q_b}{4\pi\varepsilon_o d^2}$

B $F = \dfrac{Q_a Q_b}{4\pi\varepsilon_o \left(d - a - b\right)^2}$

C $F > \dfrac{Q_a Q_b}{4\pi\varepsilon_o d^2}$

D $F > \dfrac{Q_a Q_b}{4\pi\varepsilon_o \left(d - a - b\right)^2}$