3 The distance between a proton and an electron is *r*. The electrostatic force is *F*.

The distance between the proton and electron is doubled.

Which of the following is equal to the electrostatic force at this separation?

☒ **A** $2F$

☒ **B** $\dfrac{F}{2}$

☒ **C** $\dfrac{F}{3}$

☒ **D** $\dfrac{F}{4}$

(Total for Question 3 = 1 mark)