ELECTRIC CHARGE, FORCE, AND FIELD

EXERCISES

Section 20.1 Electric Charge

 INTERPRET We'll estimate the charge your body would carry if the electron charge slightly differed from the proton charge.

DEVELOP—Since the human body is about 60% water, let's assume that the number of protons/electrons per kilogram in your body is the same as that of a water molecule. Water is 2 by drogen atoms (with one proton and one electron each) and one oxygen atom (with 8 protons and 8 electrons). If the charges on the electrons and protons are different by one part in a billion, then the net charge on a water molecule would be

$$|\Delta q| = 10|q_{\text{min}} - q_{\text{domin}}| = 10(10^{-9} c) = 10(1.60 \times 10^{-26} C) = 1.60 \times 10^{-27} C$$

The mass of a water molecule is the mass of two hydrogens and one oxygen: $\frac{1u + 1u + 16u}{1u + 16u} = 18u$, where $1u = 1.66 \times 10^{-6}$ kg. Therefore, the net charge to mass ratio for a water molecule would be:

$$\left[\frac{|\Delta q|}{m}\right]_{n_{c0}} = \frac{1.60 \times 10^{-17} \text{ C}}{18(1.66 \times 10^{-27} \text{ kg})} = 0.05 \text{ C/kg}$$

EVALUATE We'll assume your mass is 65 kg. If we approximate this mass as pure water, then the total charge on your body would be approximately

$$|\Delta q| \sim m \left[\frac{|\Delta q|}{m} \right]_{z_{c} = (65 \text{ kg})(0.05 \text{ C/kg}) \approx 3 \text{ C}$$

Assess This is a huge amount of charge. Imagine half of the charge was in your head/chest and the other half was in your legs, about a meter away. Then the magnitude of the force of repulsion between the upper and lower parts of your body would be

$$F_{c1} = \frac{kq_1q_2}{r^2} = \frac{(9.0 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(\frac{1}{7}3 \text{ C})^2}{(1 \text{ m})^2} = 2 \times 10^{50} \text{ N}$$

This would rip you apart!

 INTERPRET This problem deals with quantity of charge in a typical lightning flash. We want to express the quantity in terms of the elementary charge e.

DEVELOP. Since the magnitude of elementary charge e is $e = 1.6 \times 10^{-6}$ C, the number N of electrons involved in the lightening flash is given by N = Q/e.

EVALUATE. Substituting the values given in the problem statement, we find

$$N = Q\%c = \frac{25 \text{ C}}{1.6 \times 10^{-19} \text{ C}} = 1.6 \times 10^{50}$$

ASSESS Since I coulomb is about 6.35 = 10¹⁰ elementary charges, our result has the right order of magnitude.

Interpret This problem asks us to find the combination of w and d quarks needed to make a proton, which has a
positive unit change v, and a neutron, which has zero change.

Section 20 Electric Charge Answer Key

Disha Experts

Section 20 Electric Charge Answer Key:

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