Multiple Choice

22.1 The Structure of the Atom 19.

If electrons are negatively charged and the nucleus is positively charged, why do they not attract and collide with each other?

a. The pull from the nucleus provides a centrifugal force, which is not strong enough to draw the electrons into the nucleus.
b. The pull from the nucleus provides a centripetal force, which is not strong enough to draw the electrons into the nucleus.
c. The pull from the nucleus provides a helical motion.
d. The pull from the nucleus provides a cycloid motion.

22.4 Nuclear Fission and Fusion 20.

If a nucleus elongates due to a neutron strike, which of the following forces will decrease?

a. Nuclear force between neutrons only
b. Coulomb force between protons only
c. Strong nuclear force between all nucleons and Coulomb force between protons, but the strong force will decrease more
d. Strong nuclear force between neutrons and Coulomb force between protons, but Coulomb force will decrease more