**Q:** FIGURE 1 shows the electrostatic equivalent circuit of a human being. A person is charged to 20 kV and touches an object having a 50 Ω resistance to ground. Determine the following:

**(a)** the maximum current which will flow in the object

**(b)** the rise time of the current

**(c)** the decay time of the current

**(d)** the maximum voltage to which the object is charged.

