*Change of capacitor energy due to change of dielectric.* The dielectric in a spherical capacitor is oil. The capacitor is connected to a voltage source. The source is then disconnected and the oil is drained from the capacitor. The energy of the capacitor in the final electrostatic state is

(A) large than
(B) the same as
(C) smaller than

before the source was disconnected.

*Solution:* (A)
*Answer:* (A)