Decreasing current of a coil over an iron core. Let the core in Fig.Q5.6 be cut from iron and the current I of the coil be established at a very large (positive) value. If I is then reduced to zero, the values of the magnetic field intensity (H) and flux density (B) in the core encounter the following changes:

(A) Both H and B drop to zero.
(B) H drops to zero and B retains its starting (saturation) value.
(C) H retains its saturation value and B drops to zero.
(D) H drops to zero and B drops to a nonzero value.
(E) H drops to a nonzero value and B drops to zero.
(F) Both H and B drop but not to zero.

Solution: (D)
Answer: (D)