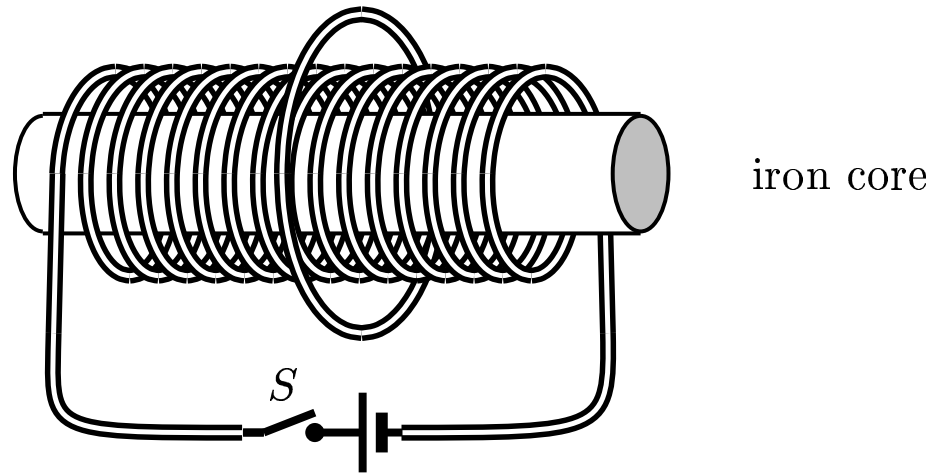


Given: The switch  $S$  has been closed for a long time and a constant current is flowing through a solenoid, creating a magnetic field.



The force which the magnetic field exerts on a conducting ring positioned as shown is

- A) to the right.
- B) to the left.
- C) The ring spins around the solenoid.
- D) There is neither a force nor a torque.
- E) There is no force, only a torque.

---

The magnetic field is constant, and the ring is not moving; therefore, the flux through the ring is constant, and there is no induced current in the ring. Thus, neither a force nor a torque will be created.

Answer **D**.