Rise/fall of the magnetic flux density in an iron core. Assume that the core in Fig.Q5.6 is made of iron. If the current I of the coil is increased gradually and smoothly from zero to a very large value, the value of the magnetic flux density, B, in the core

- (A) rises at approximately the same rate during the entire process.
- (B) rises slowly first and more rapidly later.
- (C) rises rapidly first and more slowly later.
- (D) does not change.
- (E) first rises and then falls.
- (F) rises and falls in a cyclic fashion.

Solution: (C)
Answer: (C)