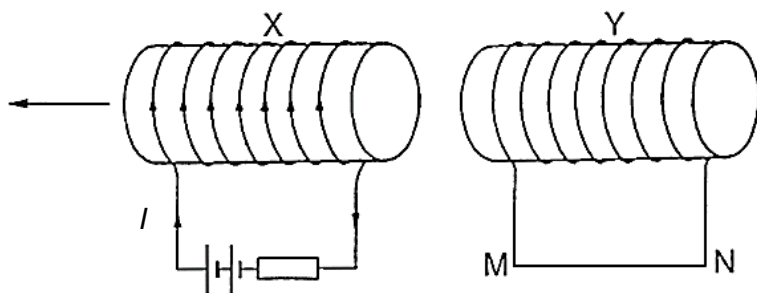


- 22** X and Y are solenoids wound on cardboard tubes, X carries constant current I as shown below and moves with constant speed away from Y along the common axis of the two tubes.



As a result of electromagnetic induction, a current will flow in the straight wire MN and there will be a force between X and Y.

Which one of the following correctly describes both the current and the force?

	nature and direction of current in straight wire MN	nature of force
A	diminishing, N to M	attraction
B	diminishing, M to N	repulsion
C	constant, N to M	repulsion
D	constant, M to N	attraction

