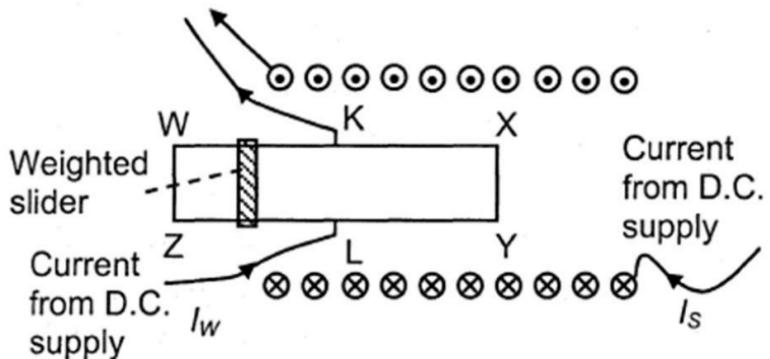


- 26 The figure below (not drawn to scale) shows the plan view of a weightless wire frame WXYZ being supported by two knife-edge at K and L. A current  $I_W$  flows through the frame. Section KXYL of the frame is placed inside a solenoid. A current of  $I_S$  flows through the coils of the solenoid. The wire frame is balanced in a horizontal position with a weighted slider.



Current  $I_S$  is increased.

Which of the following will enable the wire frame to be balanced in a horizontal position again.

- A Increase the current  $I_W$ .
- B Reverse the direction of current  $I_W$ .
- C Move the weighted slider closer to WZ.
- D Increase the number of turns on the solenoid.

- 27 A rectangular coil of length 5.0 cm and breadth 8.0 cm consists of 50 turns. It is placed in a