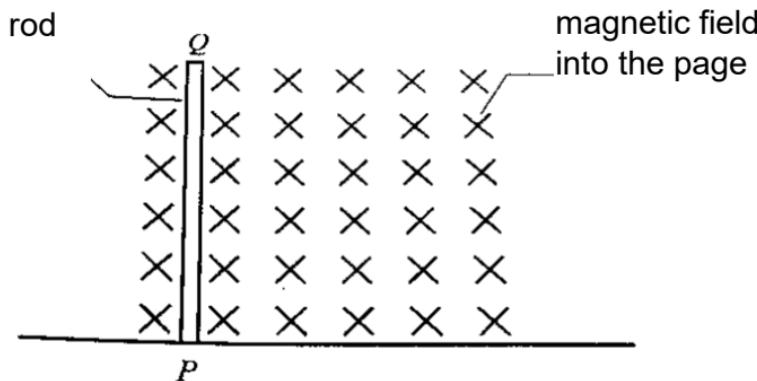


- 25** A vertical rod PQ is hinged to a flat surface at the end P and placed in a uniform magnetic field that acts into the page, as shown in the diagram. When the rod is lightly pushed to the right at the end Q, it swings downwards while still hinged at P.



Just before the end Q hits the flat surface, which of the following statements is correct?

- A** Q is at a higher electrical potential than P.
- B** An upward magnetic force acts on the rod.
- C** An induced current flows to Q from P
- D** The rod rotates clockwise with a constant angular speed.

- 26** The magnetic flux linking a conducting loop changes sinusoidally with time.