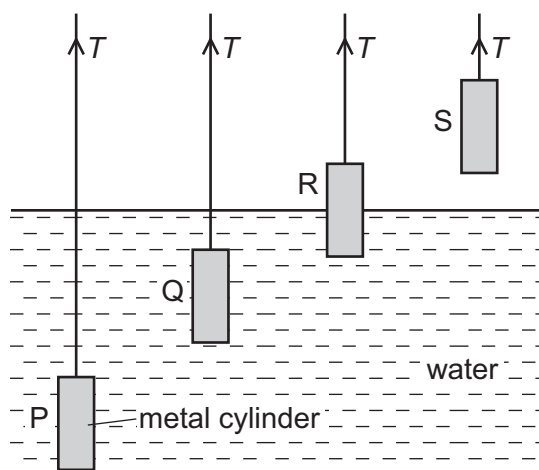


- 10 A metal cylinder is suspended vertically in equilibrium by a cord. The diagram shows the cylinder in four different positions P, Q, R and S.



Which statement explains the variation of the tension T in the cord?

- A** At P and at Q, the tension T in the cord is the same because the difference in pressure between the top and bottom of the cylinder is the same.
- B** At Q, the tension T in the cord is less than at P because, at smaller depth, liquid pressure is smaller.
- C** At R, the tension T in the cord is less than at P because atmospheric pressure is less than water pressure.
- D** At S, the tension T in the cord is greater than at P because atmospheric pressure at S exerts no force on the top or bottom of the cylinder.