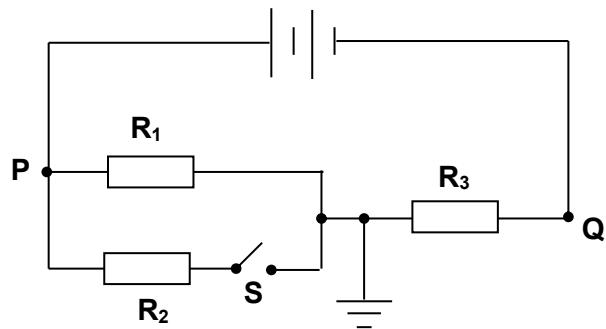


**20**

Resistor  $R_1$ ,  $R_2$  and  $R_3$  are connected to a battery of constant e.m.f. with negligible internal resistance as shown below. Resistance of  $R_1$  is twice the resistance of  $R_2$ .  $R_2$  and  $R_3$  have identical resistance.



What will happen to the electric potential at P and at Q when the switch S is closed?

**potential at P**

**potential at Q**

**A**

unchanged

unchanged

**B**

increases

increases

**C**

increases

decreases

**D**

decreases

decreases