CAMBRIDGE
INTERNATIONAL SCHOOL

Class:10th
Subject : Science

Q1.Two students prepare electric circuits using the same battery and identical bulbs.One connects the bulbs in series while the other connects them in parallel. Predict which circuit will produce brighter bulbs and explain your answer using Ohm's law and the concept of current.

Q2.A metal wire is stretched to twice its original length without changing its volume.Predict how its resistance will change. Explain your reasoning using the relationship between resistance,length and area.

Q3.A factory owner wants to make cooking utensils using calcium instead of aluminium. Would this be a good decision? Justify your answer.

Q4.A person suffers damage to the cerebellum after an accident.Predict how this will affect movement,balance and coordination. Explain the role of cerebellum in normal body functioning.

Q5.A person has insufficient secretion of insulin due to damage to the pancreas. Explain how this affects the body and describe the role of hormones in maintaining internal balance.