

Question 24 (5 marks)

Design an experiment that tests the effect of opening a window on the blood oxygen saturation level of the people in a room.

5

Independent variable	The window being open or closed.
Control	Having the window shut, then test blood.
Variables to be kept constant and justification for keeping each constant.	<p>Variable 1: Temperature within the room.</p> <p>Justification: Temperature alters the CO_2 and O_2 saturation levels in liquids. Blood is a liquid. Hence results will be altered based on varied temperature.</p>
Technology used to measure oxygen saturation in blood	Blood analysis machine.