

**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.

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Independent variable	Room temperature
Control	People who enter the didn't open a window.
Variables to be kept constant and justification for keeping each constant.	<p>Variable 1: Distance from windows.</p> <p>Justification: If people who sitting near the window will getting more effected than people who sitting far from the window. Therefore it should be same distance.</p> <p>Variable 2: Opening window time.</p> <p>Justification: When repeat the experiment with different opening window time, it will decrease validity. Therefore it should be same time.</p>
Technology used to measure oxygen saturation in blood	Blood measurement tester.