5

## **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.

Amount of all entering room Independent variable\_ Control Someone in a room without a window open Variable 1: Position of people in room in relation Variables to be kept constant and Justification: People Closer to the window will justification for keeping recieve more On faster, where as people history each constant. away recieve less Oz, much later en of moleules dispense throughout the room. Having the people position evenly around the window will produce a move valid and accorate result Amount of time exposed to open window Variable 2: Howard the public astructor on the same hand Justification: The forger a Justification stay in the room exposed to the open window, the more oxygenored their blood will be, so to ensure fairness and accuracy, have everyone exposed and the same amount of time of the same time. Technology Pulse eximeter (a pry on the finger used to detect colour of the bood used to measure oxygen (blue or real) saturation in blood