## Gas Laws Practice

1. State the Boyles law, what is the mathematical equation used to calculate the problems involving Boyle's law. 4 Marks
2. Draw a graph to represent Boyles law 2 Marks
3. State the Charles law, what is the mathematical equation used to calculate the problems involving Charles law. 4 Marks
4. Convert $-25^{\circ} \mathrm{C}$ to Kelvin 2 Marks
5. Convert 500 K to degrees Celsius 2 Marks
6. If 50 mL of Oxygen gas is compressed from 20 kPa of pressure to 40 kPa of pressure, what is the new volume at constant temperature? 4 Marks
7. A gas occupies 250 ml when the barometer reads 720 kPa . How many ml will it occupy when the barometer reads 740 kPa ? 4 Marks
8. A man heats a balloon in the oven. If the balloon initially has a volume of 0.4 litres and a temperature of $20^{\circ} \mathrm{C}$, what will the volume of the balloon be after he heats it to a temperature of $250{ }^{\circ} \mathrm{C} 4$ Marks
