 Time: 30 min	XI Chemistry Ch#5 : States		 Full Marks: 20
Instructions: 1. All questions are co			
Q1 - Which properties det	ermine the state of matter?	,	
72 - What do you underst	and by van der Waals force	ac?	(1 Mark)
22 - What do you dhiderst	and by van der waars force	:3:	(1 Mark)
23 - Deduce Ideal Gas Equ	uation.		(3 Marks)
⊇4 - Explain why, liquids l	ike ether and acetone are	cept in cool places.	(2 Marks)
	O2 and N2 gases present in the air. But it does not form the lower layer of th		
atmosphere. Why?			(2 Marks)
26 - Give the difference be molecules, the two are equ	the difference between total kinetic energy and translational kinetic energy. For what type, the two are equal?		energy. For what type of
			(3 Marks)
	ow is the partial pressure of a gas in a mixture related to the total pressure of the gaseous		sure of the gaseous
mixture?			(1 Mark)

Q8 - 103 ml of  $CO_2$  were collected at 270C and 763 mm pressure. What will be its volume if the pressure is changed to 721mm at the same temperature?

(2 Marks)

 $\rm Q9$  - An open vessel contains 200 mg of air at  $\rm 17^{0}C$ . What weight percent of air would be expelled if the vessel is heated to 117° C?

(3 Marks)

Q10 - At 0°C, the density of a gaseous oxide at 2 bar is same as that of nitrogen at 5 bar. What is the molecular mass of the oxide?

(2 Marks)