## Quiz 8.1 - Intermolecular Forces and Gases

Question i

State the strongest intermolecular force exhibited by each molecule:

CH<sub>4</sub>CO<sub>2</sub>H

H-bords

London dipole- London H-bonds dipole- London Dispersion dipole dispersion

Question 2

Which substance in each pair would have the highest melting point and boiling point:



NO<sub>2</sub> / N<sub>2</sub>O<sub>4</sub>





Question 3

Draw and describe the two features that a substance must have to be capable of forming H-bonds

H-donor (N)-H

H-acceptor (N):

Question 4

List the five postulates of the kinetic molecular theory:

1) Particles in constant, random motion 4) Kinetic energy of T

2) No Intermolecular forces

5) Collisions are elastic

3) Volume of fortitles & Ø

Complete the following pressures into atm

Question 6

Convert 1.25 atm to torr