INDIAN SCHOOL NIZWA - WORKSHEET

CHEMISTRY

CH: 5: States of matter

Name: _____ Date:_____ Class: XISec: A___

1. Give reason

   a) Temperature decreases with altitude. B) The size of the balloon becomes larger and larger when it ascends up into higher altitude.

2. What type of graph will you get when PV is plotted against P at constant temperature?

3. The vander Waals constants for two gases are follows, Which of them will be easily liquefiable and which has greater molecular size?

Gas	a	b
X	1.39	.0391
Y	3.59	.0427

4. Why mountaineers carry oxygen cylinders at high altitude? This is in accordance with which gas law?

5. Why hot air balloons are used in sports and for meteorological observation? Which gas law is applicable for this?

6. If the number of moles of a gas is doubled by keeping the temperature and pressure constant, what will happen to the volume? This is in accordance with which gas law?

7. Why are vegetables cooked with difficulty at a hill station?

8. Why H2 & He has Z >1?

9. Liquid NH3 bottle is cooled before opening the seal. Explain.

10. compressibility factor is less than one. What does it denotes?

11. Which type of intermolecular force exist among the following molecules?
i) H_2S molecules. ii) H_2O molecules. iii) Cl_2 &CCl_4 moleules. iv) SiH_4 moecules.
v) He atoms. vi)He atoms and HCl molecules