

Chemistry 104

Quiz 1

January 14, 1998

Name _____

Score _____ %

Signature _____

ID number _____

1. (30 points) Arrange the following in order of increasing melting point: CBr_4 , CH_3OHCH_3 , H_2S , CaF_2 , CH_4 .

2. (30 points) Arrange the following in order of decreasing surface tension: PH_3 , RbCl , CF_4 , NH_3 , SiF_4 .

3. (20 points) Name the types of forces that occur between molecules of:

CsBr

H_2O

BF_3

HCl

4. (20 points) A crystal scatters x-rays of wavelength 0.9082 \AA at an angle of 32.84° . If this is third order Bragg scattering, find the distance between layers in the crystal.

