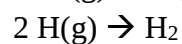
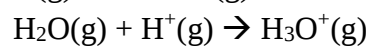
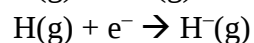
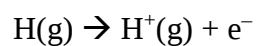


Exercise II

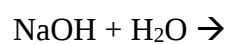
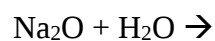
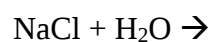
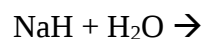
1) Which molecule is non-polar: NH_3 , BH_3 , H_2S or IH ?

2) Which of the following processes is endothermic?



3) Which of the following compounds is a hydride, and which is a salt: HCl , SiH_4 , NaH , or NH_3 ?

4) In which reaction do you liberate H_2 ?



5) Which of the following hydrogen bonds is the weakest: $\text{C-H} \cdots \text{O}$, $\text{N-H} \cdots \text{O}$, $\text{O-H} \cdots \text{O}$ or $\text{O-H} \cdots \text{N}$?

6) In which solvent pair do you observe intermolecular hydrogen bonding?

Acetonitrile and toluene

THF and diethyl ether

Ethanol and ethylamine

Diethyl ether and dibutyl ether