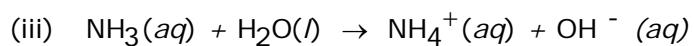
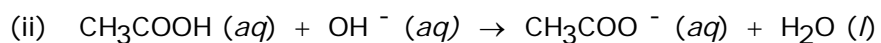
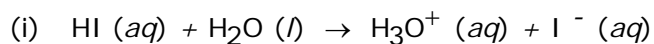


Session #26: Homework Problems

Problem #1

(a) Identify the conjugate acid-base pairs in the following reactions:



(b) Identify which of the following cannot be a Brønsted base and give a reason for your choices: H_3O^+ , AlCl_4^- , CN^- , O^{2-} , SiH_4 , AsH_3 .

(c) Estimate the pH and pOH of a 0.03091 M solution of hydroiodic acid ($K_a \cong 10^9$).

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