TVS TEACHER TRAINING ACADEMY

WORKSHEET

Acids and Bases Strength

Write True (T) or False (F).

i. Stronger acids have weaker conjugate bases and weaker acids have stronger conjugate bases. ____

ii. Stronger bases have stronger conjugate acids and weaker bases have weaker conjugate acids. ____

Write equations that show how the following reactions occur in water.

i. F^- acts as a base. _____

ii. HNO_2 acts as an acid. _____

iii. $Fe(H_2O)_6^{3+}$ acts as an acid. _____

iv. HCO_3^- acts as a base. _____

v. HCO_3^- acts as an acid. _____

vi. $Al(H_2O)_5(OH)^{2+}$ acts as a base. _____

What volume of 0.45 M LiOH would be needed to neutralize 60.0 mL of 0.15 M HI?

Calculate the pH values of the following solutions of strong acids and bases.

i. 0.001 M HCl

ii. 0.76 M KOH

iii. 2.8×10^{-4} M $Ba(OH)_2$

LIVEWORKSHEETS