

**Marks**  
**2**

- What is the pH of a 0.020 M solution of HF? The  $pK_a$  of HF is 3.17.

pH =

**2**

- What is the pH of a solution that is 0.075 M in acetic acid and 0.150 M in sodium acetate? The  $pK_a$  of  $CH_3COOH$  is 4.76.

pH =

**2**

- What is the pH of a 0.010 M solution of  $Ba(OH)_2$ ?

pH =