

ACIDS, BASES, SALTS (A)

1 Complete the table with ticks to show whether each of the following is an acid, base, salt and/or alkali.

| formula | name | acid | base | alkali | salt |
|--------------------------------|------|------|------|--------|------|
| CaO | | | | | |
| K ₂ SO ₄ | | | | | |
| КОН | | | | | |
| HNO ₃ | | | | | |
| NH ₃ | | | | | |
| AlCl ₃ | | | | | |

| 2 | | added to dilute the acid which reduced the concentration of H ⁺ ions to 0.00050 mol/dm ³ . What is the pH of the diluted acid? |
|---|---|--|
| 3 | | Ethanoic acid is a weak acid. Explain the terms <i>acid</i> and <i>weak</i> . Acid = |
| | | Weak = |
| 4 | а | Complete the word equation for each of the following reactions. |
| | | i sodium hydroxide + sulfuric acid → |
| | | ii copper carbonate + hydrochloric acid → |
| | | iii ammonia + nitric acid → |
| | | iv zinc + sulfuric acid → |
| | b | Write an ionic equation for reaction (i) |
| | С | Which of the reactions in (a) are redox reactions? |
| | d | Which of the reactions in (a) are acid-base reactions? |
| | е | Write balanced equations for the reactions in (a) |
| | | i |
| | | ii |
| | | iii |
| | | to. |

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