

Acids and Bases

Question 1: Choose the correct answer for each of the following questions:

- 1.1 The element present in all acids...
- | | |
|------------|------------------|
| A oxygen | B carbon dioxide |
| C nitrogen | D hydrogen |
- 1.2 A sample of an acid in a beaker has a pH of 4. An alkali is added to it. What is the pH of the liquid in the beaker?
- | | |
|-------------|------------------|
| A decreases | B stays the same |
| C increases | D neutral |
- 1.3 Choose the incorrect combination:
- | | |
|-------------------------------------|---|
| A HNO_3 – Nitric acid. | B H_2SO_4 – sulphuric acid. |
| C HCl – Hydrochloric acid. | D H_2CO_3 – carbonic acid. |
- 1.4 The colour of blue litmus paper in an acid is ...
- | | |
|----------|---------|
| A yellow | B green |
| C blue | D red |
- 1.5 Which substance is always produced in the reaction between hydrochloric acid and lithium?
- | | |
|--------------|----------------------|
| A water | B hydrogen gas |
| C oxygen gas | D carbon dioxide gas |
- 1.6 Which substance is always produced in the reaction between hydrochloric acid and sodium hydroxide?
- | | |
|--------------|----------------|
| A water | B hydrogen gas |
| C oxygen gas | D precipitate |
- 1.7 Which formula represents an acid?
- | | |
|--------------------------|----------------------------|
| A KOH | B KCl |
| C CH_3OH | D CH_3COOH |
- 1.8 The method of adding an acid to a base is:
- | | |
|------------------|-----------------|
| A neutralisation | B precipitation |
| C evaporation | D decomposition |

[8]

Question 2: Write the general reaction for an acid with the following compounds:

- 2.1 Base: _____
- 2.2 Carbonate: _____
- 2.3 Metal: _____

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