

Revision Unit 5

Multiple Choice Questions: Circle the correct answer

1. Which of the following is an example of an acid?

- a) Sodium hydroxide
- b) Lemon juice
- c) Oven cleaner
- d) Soap

2. Which pH number indicates a strong alkali?

- a) 1
- b) 5
- c) 7
- d) 13

3. What is the product of a neutralization reaction between an acid and an alkali?

- a) Acid and Water
- b) Alkali and Water
- c) Salt and Water

Rawdat Al Hamama Campus

Landline : +974 4050 1999
Mobile : +974 5606 1472



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edisonrh@edisonqatar.com

edisonacademy/gh

PO BOX 120477, Doha, Qatar

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- d) Gas and Oil

4. What is the pH of a neutral substance (e.g., pure water)?

- a) 1
- b) 5
- c) 7
- d) 10

5. Which of these is a common alkali?

- a) Vinegar
- b) Hydrochloric acid
- c) Sodium hydroxide
- d) Citric acid

6. Why is toothpaste used to clean teeth?

- a) It is acidic to remove stains.
- b) It is neutral and just cleans.
- c) It is alkaline and neutralizes acids that cause decay.
- d) It is salty.

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PO BOX 12947 Doha, Qatar


State whether each of the following statements is True or False:

- 1- Acids have a pH less than 7
- 2- Pure water is neutral with a pH of 7
- 3- Universal indicator turns red in an alkali
- 4- Acids are safe to taste in the lab
- 5- Acid + Alkali \rightarrow Salt + Water

Extended Questions:

Q1) Pierre and Blessy test five substances, **A, B, C, D** and **E**, with three different indicators.

They use these indicators:

- blue litmus
- methyl orange
- thymolphthalein.

Pierre and Blessy use this information about the different indicators to sort the substances into acidic, neutral or alkaline.

indicator	acidic	neutral	alkaline
blue litmus	red	blue	blue
methyl orange	red	yellow	yellow
thymolphthalein	colourless	colourless	blue

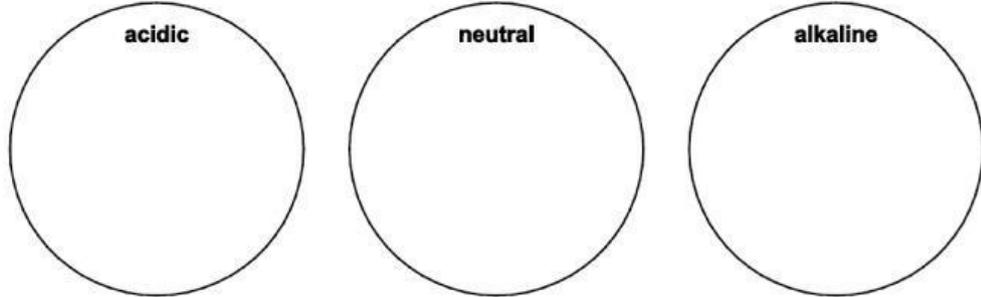
Here are their results.

indicator	substance				
	A	B	C	D	E
blue litmus	blue	red	blue	blue	red
methyl orange	yellow	red	yellow	yellow	red
thymolphthalein	blue	colourless	blue	colourless	colourless

Sort the substances A, B, C, D and E into three groups: acidic, neutral and alkaline.

Put the letter of each substance into the correct circle.

acidic neutral alkaline



Q2) Hazard symbols warn about the dangers of a substance.

Draw a line to match each hazard symbol to its correct description.

hazard symbol



description

oxidising

toxic

irritant

highly flammable

corrosive

amy

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edisonrh@edisonqatar.com
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PO BOX 129777, Doha, Qatar
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