BAB 6: ASID DAN ALKALI

BAHAGIAN A: SOALAN OBJEKTIF

1 Maklumat di bawah menunjukkan pH beberapa jenis bahan.
Information below shows the pH of few substances.

Bahan *Substance*	pH
Larutan ammonia *Ammonia solution*	II
Peluntur *Bleach*	12.6
Serbuk penaik *Baking powder*	9
Air laut *Sea water*	8

Susunan bahan-bahan di atas mengikut kekuatan kealkaliannya yang manakah **betul**?
Which sequence of the substances above according to the strength of alkalis is correct?

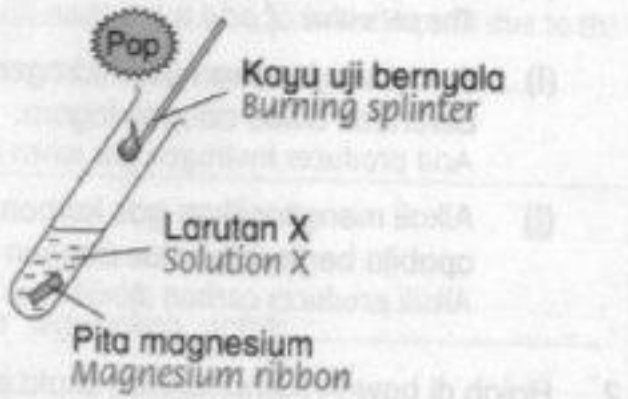
A Peluntur, serbuk penaik, air laut, larutan ammonia
Bleach, baking powder, sea water, ammonia solution

B Peluntur, larutan ammonia, serbuk penaik, air laut
Bleach, ammonia solution, baking powder, sea water

C Air laut, serbuk penaik, larutan ammonia, peluntur
Sea water, baking powder, ammonia solution, bleach

D Air laut, larutan ammonia, serbuk penaik, peluntur
Sea water, ammonia solution, baking powder, bleach

2 Rajah menunjukkan keputusan tindak balas antara larutan X dengan pita magnesium.
Diagram shows the result of a reaction between solution X and magnesium ribbon.



Apakah bahan yang mungkin bagi larutan X?
What is the possible substance of solution X?

A Asid hidroklorik
Hydrochloric acid

B Kalsium hidroksida
Calcium hydroxide

C Natrium hidroksida
Sodium hydroxide

D Magnesium hidroksida
Magnesium hydroxide

3 Antara berikut, yang manakah contoh asid?
Which of the following is an example of acid?

A Cuka *Vinegar*

B Air kapur *Lime water*

C Ammonia *Ammonia*

D Air sabun *Soap water*

Soalan subjektif *Subjective questions* | **Bahagian B** *Section B*

1 Tandakan (✓) bagi pernyataan yang **betul** dan (×) bagi pernyataan yang **salah**.
Tick (✓) for the correct statements and (×) for the wrong statements.

(a) Asid mempunyai rasa masam.
Acid has a sour taste. ✓

(b) Alkali tiada sebarang rasa.
Alkali does not have any taste. ×

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BAHAGIAN A: SOALAN SUBJEKTIF

(c) Asid pekat mengakis. / *The concentrated acid is corrosive.* — /

(d) Alkali pekat mengakis. / *The concentrated alkali is corrosive.* — /

(e) Asid tidak bertindak balas terhadap kedua-dua kertas litmus biru dan merah. / *Acid does not reacts to both the blue and red litmus paper.* — X

(f) Asid menukarkan kertas litmus biru kepada merah. / *Acid turns the blue litmus paper to red.* — /

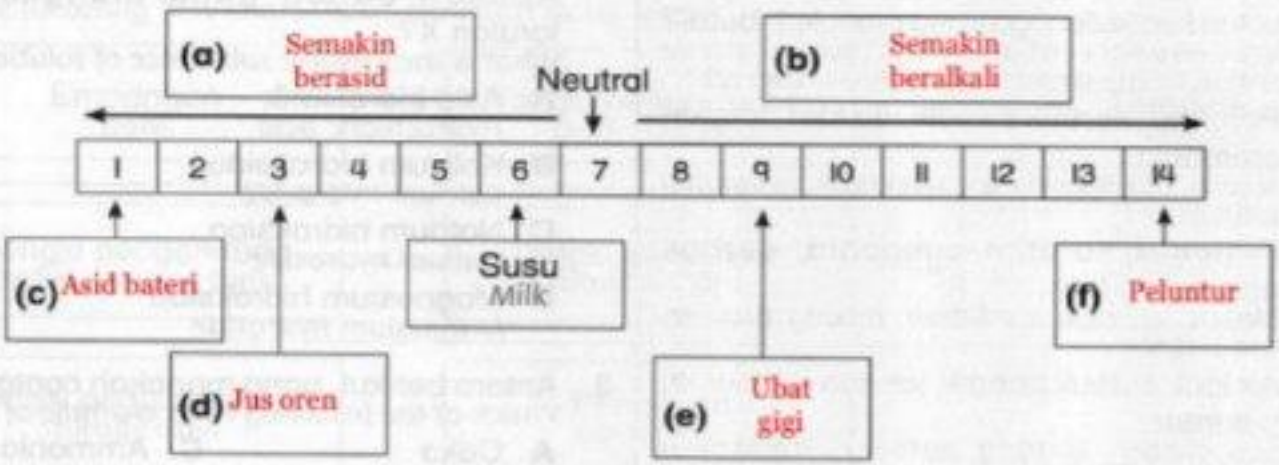
(g) Nilai pH asid adalah lebih daripada 7. / *The pH value of acid is more than 7.* — X

(h) Nilai pH alkali adalah kurang daripada 7. / *The pH value of acid is less than 7.* — X

(i) Asid menghasilkan gas hidrogen apabila bertindak balas dengan logam. / *Acid produces hydrogen gas when reacts with metal.* — /

(j) Alkali menghasilkan gas karbon dioksida apabila bertindak balas dengan karbonat. / *Alkali produces carbon dioxide gas when reacts with carbonates.* — X

2 Rajah di bawah menunjukkan skala pH. / *Diagram below shows a pH scale.*



Lengkapkan rajah skala pH di atas dengan menggunakan perkataan yang diberi di bawah. / *Complete the diagram of pH scale above using the words given below.*

Semakin beralkali / *More alkaline*	Peluntur / *Bleach*	Jus oren / *Orange juice*
Ubat gigi / *Toothpaste*	Asid bateri / *Battery acid*	Semakin berasid / *More acidic*