

- 31 Diagram 7 shows the set up of apparatus for an experiment involving a chemical cell.
Rajah 7 di bawah menunjukkan susunan radas bagi satu eksperimen yang melibatkan sel kimia.

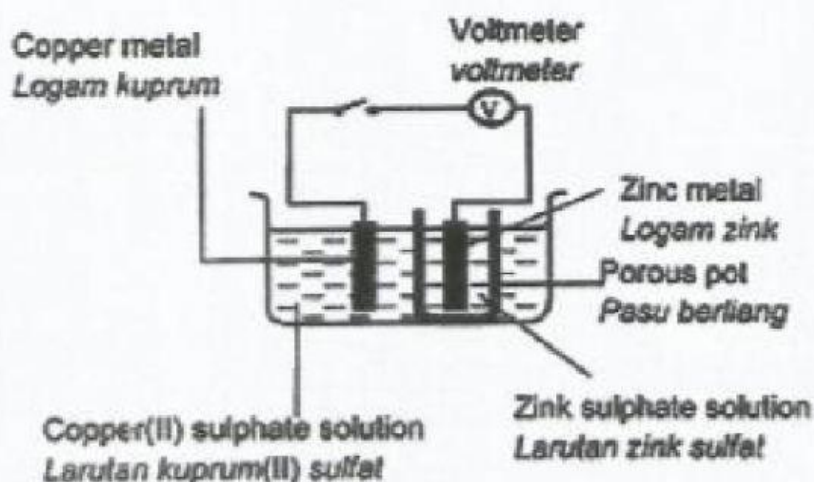


Diagram / Rajah 7

Which of the following statements are true about the above experiment?
Pernyataan manakah benar tentang eksperimen di atas?

- I. Copper metal becomes thinner
Logam kuprum semakin menipis
 - II. Zinc metal becomes thinner
Logam zink semakin menipis
 - III. Blue color of copper(II) sulphate solution is fading
Warna biru larutan kuprum(II) sulfat semakin pudar
 - IV. Brown deposit formed at zinc electrode
Enapan perang terbentuk di elektrod zink
- A. I and II
I dan II
 - B. I and IV
I dan IV
 - C. II and III
II dan III
 - D. III and IV
III dan IV

- 32 Diagram 8 shows the arrangement of particles in three state of matter at room temperature.
Rajah 8 menunjukkan susunan zarah dalam tiga keadaan jirim pada suhu bilik.

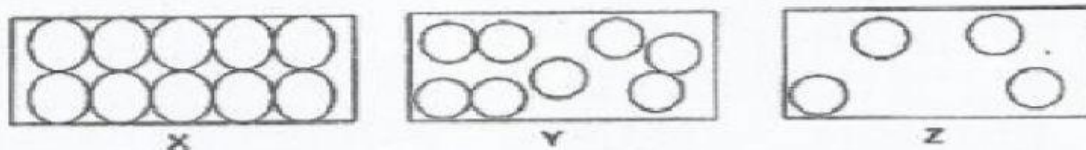


Diagram / Rajah 8

What are substances X, Y and Z at room temperature?
Apakah bahan X, Y dan Z pada suhu bilik?

	X	Y	Z
A	Bromine <i>Bromin</i>	Naphthalene <i>Naftalena</i>	Nitrogen <i>Nitrogen</i>
B	Naphthalene <i>Naftalena</i>	Bromine <i>Bromin</i>	Nitrogen <i>Nitrogen</i>
C	Nitrogen <i>Nitrogen</i>	Bromine <i>Bromin</i>	Naphthalene <i>Naftalena</i>
D	Naphthalene <i>Naftalena</i>	Nitrogen <i>Nitrogen</i>	Bromine <i>Bromin</i>

- 33 Diagram 9 shows a series of tests carried out on solution Y.
Rajah 9 menunjukkan satu siri ujian telah dijalankan ke atas larutan Y.

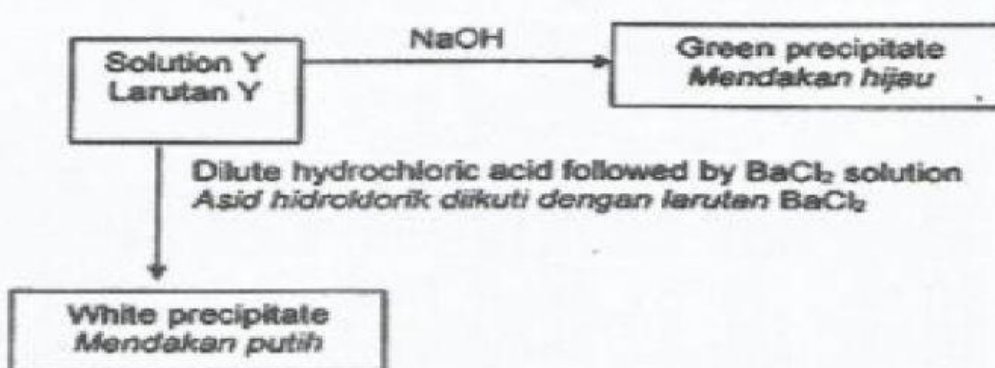
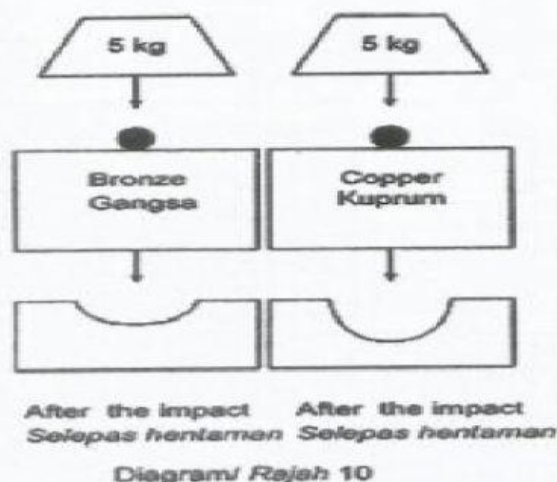


Diagram / Rajah 9

Which of the following is most likely to be solution Y.
Antara berikut manakah kemungkinan larutan Y.

- A Iron(II) sulphate
Ferum(II) sulfat
- B Lead(II) sulphate
Plumbum(II) sulfat
- C Iron(II) chloride
Ferum(II) klorida
- D Copper(II) carbonate
Kuprum(II) karbonat

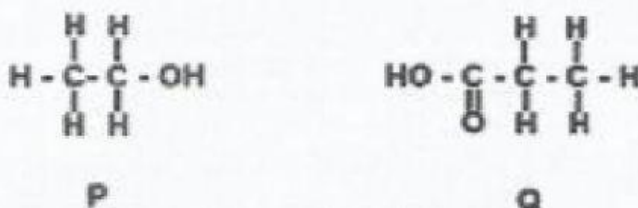
- 34 Diagram 10 below shows the effect of a weight that is dropped onto steel ball bearing placed on bronze and copper blocks.
 Rajah 10 di bawah menunjukkan kesan satu pemberat diletakkan ke atas bebola ketuli yang terletak di atas bongkah gangsa dan kuprum.



What is the characteristic shown by the bronze block?
 Apakah sifat yang ditunjukkan oleh bongkah gangsa?

- A Shiny
Berkilaf
 - B Light
Ringan
 - C Strong and hard
Kuat dan keras
 - D Able to withstand corrosion
Boleh menahan kakisan
- 35 0.2 mol of magnesium tape reacts with excess dilute nitric acid. After 30 seconds 0.05 mol of magnesium remains as residue. What is the average rate of reaction?
 0.2 mol pita magnesium bertindak balas dengan asid nitrik cair berlebihan. Selepas 30 saat, didapati 0.05 mol magnesium tertinggal sebagai baki. Berapakah kadar tindak balas purata itu?
- A $1.7 \times 10^{-3} \text{ mol s}^{-1}$
 - B $1.5 \times 10^{-3} \text{ mol s}^{-1}$
 - C $2.3 \times 10^{-3} \text{ mol s}^{-1}$
 - D $5.0 \times 10^{-3} \text{ mol s}^{-1}$

- 36 Diagram 11 below are the structural formulae which represent organic compounds P and Q.
 Rajah 11 di bawah menunjukkan formula struktur yang mewakili sebatian organik P dan Q.



Diagram/ Rajah 11

What is the name of the compound formed when compound P reacts with compound Q using concentrated sulphuric acid as a catalyst?

Apakah nama sebatian yang terhasil apabila sebatian P bertindak balas dengan sebatian Q dengan menggunakan asid sulfurik pekat sebagai mangkin?

- A Butyl ethanoate
Butil etanoat
- B Ethyl butanoate
Etil butanoat
- C Propyl ethanoate
Propil etanoat
- D Ethyl propanoate
Etil propanoat

- 37 Magnesium react with hydrochloric acid, state the process happen to magnesium and hydrogen ion?

Magnesium bertindak balas dengan asid hidroklorik, nyatakan proses yang berlaku kepada magnesium dan ion hidrogen?

	Magnesium Magnesium	Hydrogen ion Ion hidrogen
A	Oxidation Pengoksidaan	Reduction Penurunan
B	Reduction Penurunan	Oxidation Pengoksidaan
C	Oxidation Pengoksidaan	Oxidation Pengoksidaan
D	Reduction Penurunan	Reduction Penurunan

- 38 A student wants to study the heat of displacement by using lead metal. Which of the solutions are suitable to be use in this experiment?
Saorang pelajar ingin mengkaji haba penyesaran menggunakan logam plumbum. Yang manakah larutan yang sesuai digunakan dalam eksperimen ini?

- I Zinc nitrate
Zink nitrat
 - II Copper (II) nitrate
Kuprum(II) nitrat
 - III Silver nitrate
Argentum nitrat
 - IV Magnesium nitrate
Magnesium nitrat
- A I and III
I dan III
 - B I and IV
I dan IV
 - C II and III
II dan III
 - D II and IV
II dan IV

- 39 Diagram 12 shows a child having fever. Her mother takes him to a doctor. What medicine the doctor prescribed to the child?
Rajah 12 menunjukkan seorang kanak-kanak yang demam. Ibunya membawa kanak-kanak itu berjumpa doktor. Apakah ubat yang doktor akan preskripsi kepada kanak-kanak itu?



Diagram/ Rajah 12

- A Aspirin
Aspirin
- B Barbiturate
Barbiturat
- C Penicillin
Penisilin
- D Paracetamol
Parasetamol
- 40 Every morning, Muthu helped his father to collect latex from the rubber tree. He found that the latex coagulated after a few hours. How muthu can prevent the latex from coagulating?
Setiap pagi, Muthu menolong ayahnya mengumpul latek dari pokok getah. Dia mendapati, latek mengumpal selepas beberapa jam. Bagaimanakah Muthu dapat mengelakan latek daripada mengumpal?
- A Add ammonia solution
Tambah larutan ammonia
- B Add sodium chloride solution
Tambah larutan natrium klorida
- C Add ethanoic acid
Tambah asid etanoik
- D Add sulphur monochloride
Tambah sulfur monoklorida