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Chemistry 摘星Mock Papers

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- 4份模擬試卷
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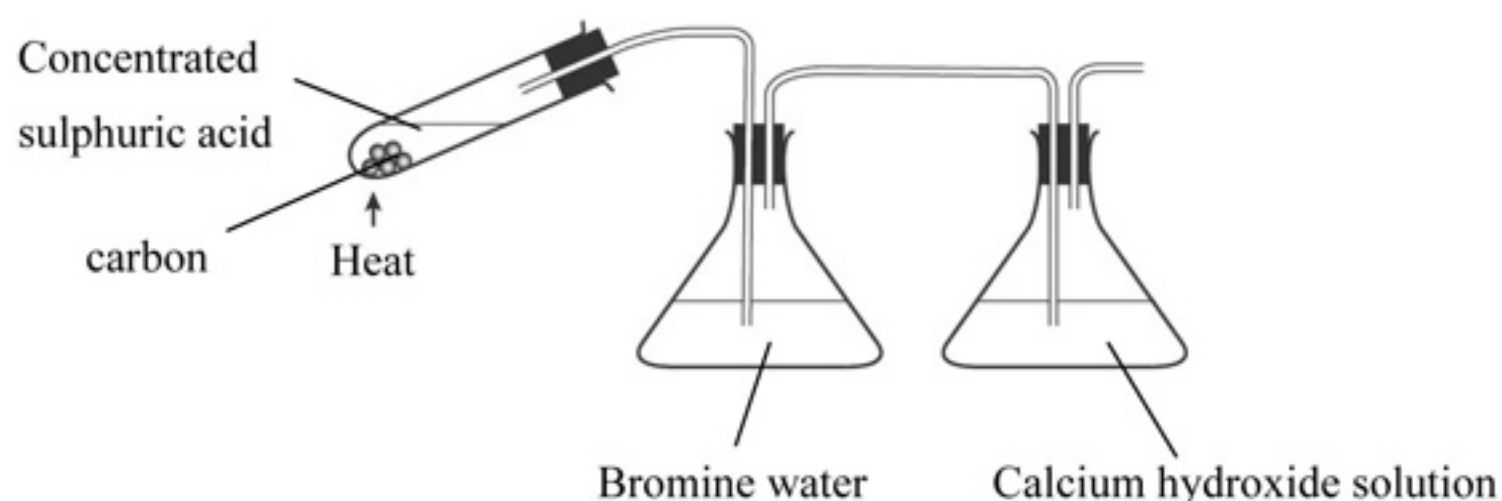
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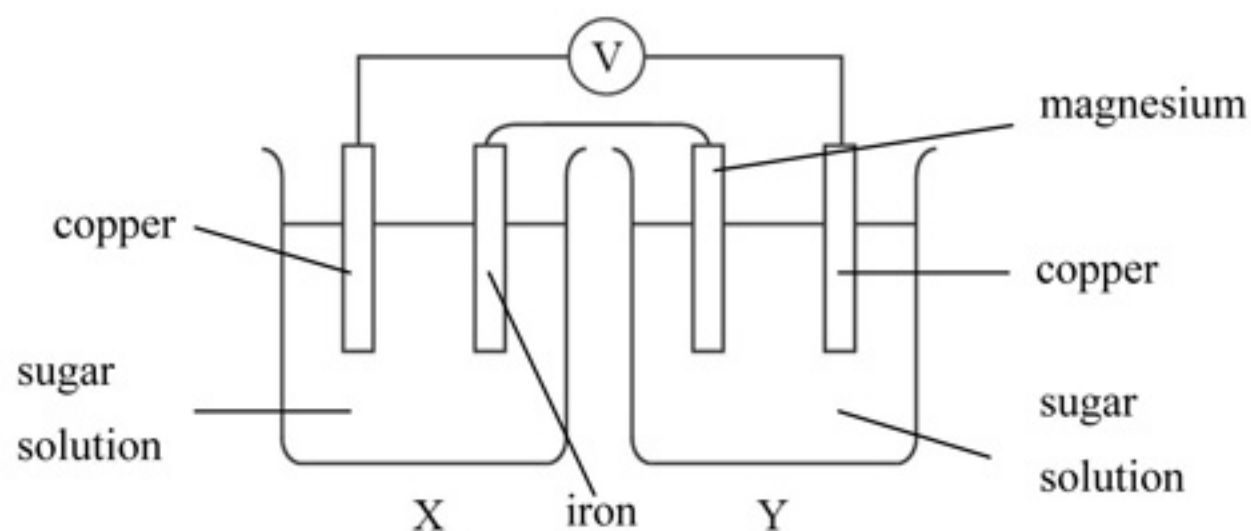
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14. When substance X is mixed with an aqueous solution of copper (II) nitrate, the copper (II) ions act as an oxidizing agent. X could be
- A. Magnesium ribbon
 - B. Concentrated sulphuric acid
 - C. Acidified potassium permanganate solution
 - D. Iron (III) sulphate
15. In an experiment, carbon in concentrated sulphuric acid is heated. Bromine water and calcium hydroxide solution are used to show the presence of two gaseous products formed. Which of the following statements concerning the experiment is / are correct ?



- (1) Bromine water is used to show carbon dioxide evolved.
 - (2) Calcium hydroxide solution turns milky.
 - (3) Concentrated sulphuric acid acts both as a dehydrating agent and an oxidizing agent.
- A. (1) only
 - B. (2) only
 - C. (1) and (3) only
 - D. (2) and (3) only

5. The diagram shown below is a set-up with metal strips immersed in sugar solution.



- (a) State the direction of electron flow in the electrical wire between iron and magnesium. Explain your answer.

(2 marks)

- (b) (i) The voltmeter readings recorded is low. Which two metal strips should be interchanged to increase the readings ?

(1 mark)

- (ii) Suggest a modification about the electrolyte used which can also increase the voltmeter readings. Explain your answer.

(2 marks)

32. Consider the following organic conversion :



Which of the following correctly describe the type of reaction in the conversion ?

	<u>Step 1</u>	<u>Step 2</u>
A.	Substitution	Substitution
B.	Addition	Substitution
C.	Substitution	Addition
D.	Addition	Addition

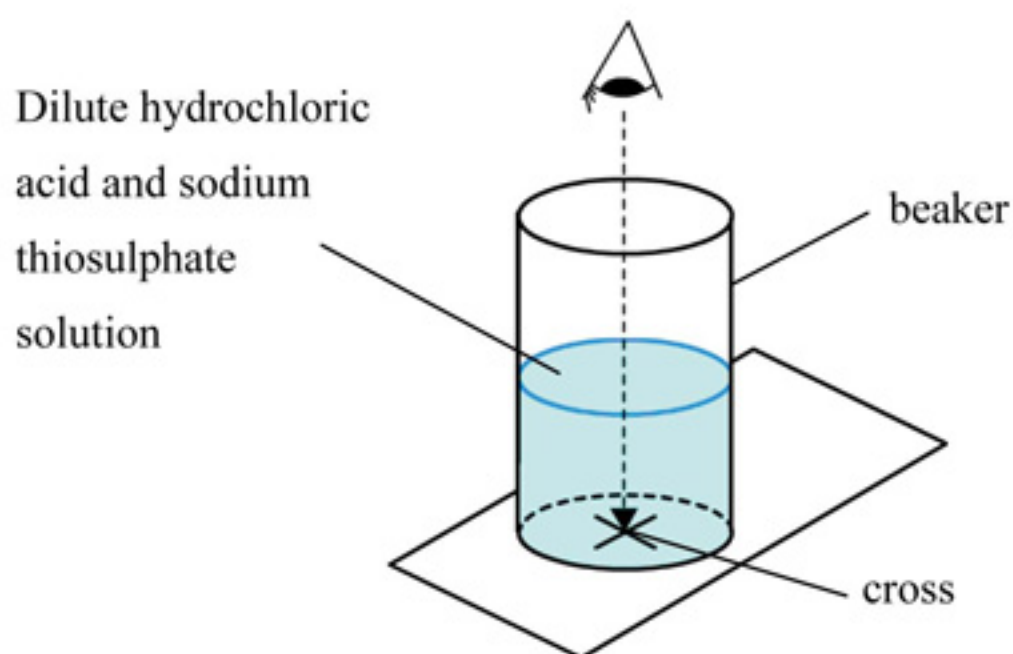
33. Which of the following statements concerning a vegetable oil is correct ?

- A. It is saturated.
- B. It undergoes hydrogenation to form a semi-solid compound.
- C. It undergoes hydrolysis to form margarine.
- D. It has a vinegar smell.

34. Which of the following statements concerning aspirin is correct ?

- A. Aspirin is used to relieve anxiety.
- B. It can readily decolorize bromine in tetrachloromethane.
- C. It can be readily degraded in acid environment.
- D. It reacts with $\text{NaHCO}_3(\text{aq})$ to give coloured gas.

17. In an experiment, dilute hydrochloric acid was added to sodium thiosulphate solution ($\text{Na}_2\text{S}_2\text{O}_3$) in order to study the effect of temperature on the rate of reaction. Time required (t) for the disappearance of the cross was recorded. The experimental set-up is shown below :



The table below shows the experimental results :

Temperature / $^{\circ}\text{C}$	Time (t) / s
30	80
40	40
50	20
60	10

- (a) Write the chemical equation for the reaction.

(1 mark)

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