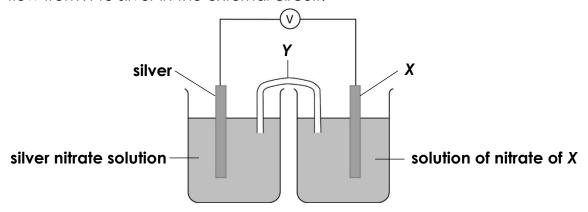
Quiz (Redox Reaction in Chemical Cells)

Multiple-choice

1. Silver and metal X are immersed in their nitrate solutions respectively. Electrons flow from X to silver in the external circuit.



Which of the following combinations is correct?

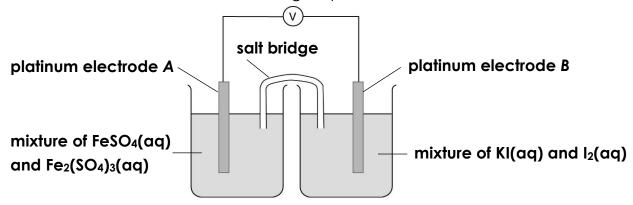
	<u>X</u>	<u>Silver</u>	<u>Y</u>
Α.	Cathode	Anode	Potassium chloride solution
В.	Anode	Cathode	Potassium chloride solution
C.	Cathode	Anode	Potassium nitrate solution
D.	Anode	Cathode	Potassium nitrate solution

2. The following equation shows the overall reaction of a sodium-sulphur cell: $2Na + S \rightarrow Na_2S$

What are the changes occurred at the anode and the cathode respectively?

	<u>Anode</u>	<u>Cathode</u>
A.	$Na^+ + e^- \rightarrow Na$	$S^{2-} \rightarrow S + 2e^-$
В.	$S^{2-} \rightarrow S + 2e^-$	$Na^+ + e^- \rightarrow Na$
C.	$Na \rightarrow Na^+ + e^-$	$S + 2e^- \rightarrow S^{2-}$
D.	$S + 2e^- \rightarrow S^{2-}$	$Na \rightarrow Na^+ + e^-$

Questions 3 and 4 refer to the following simple chemical cell:



- 3. Which of the following statements about the chemical cell are correct?
 - (1) The platinum electrodes do not take part in the cell reaction.
 - (2) The salt bridge can be prepared by sodium sulphate solution.
 - (3) Platinum electrode A is the negative electrode.
 - A. (1) and (2) only

B. (1) and (3) only

C. (2) and (3) only

- D. (1), (2) and (3)
- 4. Which of the following is the observable change in the cell?
 - A. Colourless gas bubbles evolve around platinum electrode A.
 - B. Silvery grey solid forms on platinum electrode A.
 - C. The solution around platinum electrode B becomes paler.
 - D. The solution around platinum electrode B becomes deeper.

Multiple Choice

1.	D
2.	С
3.	Α
4.	D