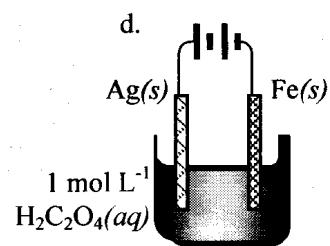
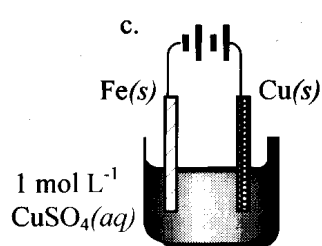
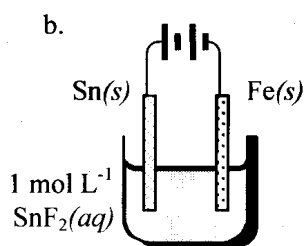
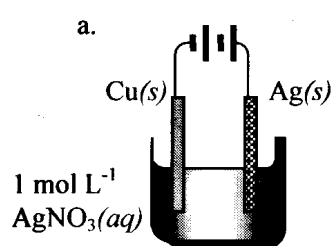


## Electrolysis Problems

### Question 1

The following electrolytic cells use electrodes that might be oxidised. Answer the questions about these cells.

- What is the most favourable cathode reaction?
- Choose the most favourable anode reaction.
- Describe any changes that would be observed at the cathode and anode.



## Question 2

An aqueous solution of cobalt nitrate is electrolysed using inert electrodes. A current of 1.52 A is passed through the cell for 25.0 minutes. For this cell answer the following questions.

- a. What mass of cobalt is deposited at the cathode?
- b. What volume of oxygen will form at the anode, if it is measured at 302 K and 102.2 kPa?