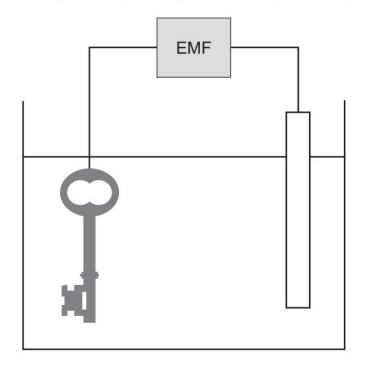
Question 31 (13 marks)

A solution that contains silver cyanide, AgCN(aq), is used to plate a key with silver.



- (a) Label the above diagram to show the:
 - cathode and anode
 - direction of electron flow
 - · direction of ion flow
 - polarity (positive/negative) of each electrode.

(4 marks)

Explain this difference between these two cells.	(3 marks

A salt bridge is required in galvanic cells but is **not** required in the electroplating cell above.

	excerpts from the Material Safety Data Sheet for silver cyanide shown below to an c) and part (d).	swer
	For copyright reasons this image cannot be reproduced in the online version of this document.	
(c)	Explain why action is taken to maintain the pH above 8 as a safety precaution d electroplating process using silver cyanide.	uring the (3 marks)

(d)	Suggest three other safety measures that should be taken during the electropla process and indicate how each addresses a specific potential hazard to either tworkers or the environment.	-
	One:	
	Two:	
	Three:	