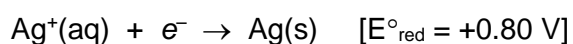


19. In an operating voltaic cell, electrons move through the external circuit and ions move through the electrolyte solution. Which one of the following statements correctly describes these movements?
- A Electrons and negative ions both move towards the anode.
 - B Electrons and negative ions both move towards the cathode.
 - C Electrons move towards the anode and negative ions move towards the cathode.
 - D Electrons move towards the cathode and negative ions move towards the anode.
20. An unknown metal, M(s) and its aqueous salt, M(NO₃)₂(aq) are combined with a silver half-cell in which the following reaction takes place:



If $E^\circ_{\text{cell}} = +1.36 \text{ V}$, what is E°_{red} for $\text{M}^{2+}(\text{aq}) + 2\text{e}^- \rightarrow \text{M}(\text{s})$?

- A +0.56 V
- B +0.24 V
- C -0.24 V
- D -0.56 V

Answers

1. B
2. D
3. A
4. C
5. B
6. B
7. D
8. D
9. C
10. D
11. C
12. D
13. D
14. C
15. B
16. A
17. D
18. B
19. D
20. D