# Electrochemistry - Multiple Choice Questions

 Which of these chemical reactions is an exidation-reduction reaction? A. Fe + S + FeS C. AaNO<sub>3</sub> + NaCl → AaCl + NaNO<sub>3</sub> B. CO₂ • H₂O → H₂CO₂ D. H<sub>2</sub>SO<sub>4</sub> = 2NaOH → Na<sub>2</sub>SO<sub>4</sub> = 2H<sub>2</sub>O 2. What happens to the oxidizing agent in an oxidation-reduction reaction? A. It is axidized as it gains electrons. C. It is reduced as it oains electrons. D. It is reduced as it loses electrons. R. It is oxidized as it loses electrons. In which substance does bromine have an exidation number of \*12 B. HBr. C. HBrO D. HBMO. 4. Which statement is true for an electrochemical cell? A. Oxidation occurs at the anode only: B. Reduction occurs at the anode only. C. Oxidation occurs at both the enode and cathode. D. Reduction occurs at both the anade and cathode. 5. Given the equation: 2Cr(s) = 3Pb<sup>2</sup>(oq) → 2Cr<sup>2</sup>(oq) = 3Pb(s), which is the correct reduction half reaction? A. Cr(s) → Cr<sup>3\*</sup>(aq) = 3e\* C. Pb<sup>2</sup>(og) → Pb(s) + 2e<sup>-</sup> B. Cr(s) • 3e" → Cr"(oq) D. Pb(\*(eq) - 2e\* + Pb(s) \_ 6. What is the E<sup>\*</sup> for an electrochemical cell with the following reaction? 2Au<sup>b</sup> • 3Co → 3Co<sup>b</sup> • 2Au A. -1.22 V 8 178 V C. 122 V b. 3.84 V \_\_\_ 7. An iron ring is ploted with zinc metal in the apparatus below. Which of the following is true? A. It is a voltaic cell and the reaction is spontaneous. B. It is a voltaic cell and the reaction is not spontaneous. C. It is an electrolytic cell and the reaction is spontaneous. D. It is an electrolytic cell and the reaction is not spontaneous. For circle-\_\_\_ 8. What are the exidation state of vanadium in the ions VO2 and VO22 respectively? 8 +4 and +8 A +4 and +5: C =6 and =5 D +6 and +8. Which one of the following reactions is a redox reaction? A. Pb<sup>1\*</sup>(aq) + 2Cl<sup>\*</sup>(aq) → PbCl<sub>2</sub>(s) C. NaOH(aq) • HCl(aq) → NaCl(aq) • H₂O(l) B. AgNO<sub>3</sub>(ag) + HO((ag) → AgO((s) + HNO<sub>3</sub>(ag)
D. ZAI(s) + 3O(<sub>3</sub>(g) → ZAICI<sub>3</sub>(s) \_\_\_\_ 10. Consider the following unbalanced redox equation:  $CH_2OH(1) + Cr_2O_2^{-2}(oq) + H^2(oq) + CH_2O(oq) + Cr^{3*}(oq) + H_2O(1)$ Which of the following sets of numbers will belonce the equation? D. 3, 1, 14, 3, 2, 8, A. I. 1. 14, 1, 2, 7 8, 3, 1, 8, 3, 2, 7 C. 3, 1, 8, 3, 2, 6 In which of the following does sulfur have an oxidation number of +7? A. H5O," B. 50. C. H.50. \_\_\_ 12. What happens to the reducing agent in an oxidation-reduction reaction? A. It is axidized as it gains electrons. C. It is reduced as it gains electrons. D. It is reduced as it loses electrons. B. It is oxidized as it loses electrons. 13. What is the term for the electrode where axidation occurs? A. onede 8 cothode C. exidizing agent b. reducing goent

# <u>Chapter Electrochemistry Voltaic Cells Study Guide</u> <u>Answer</u>

Fredeen, Pearson

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