

Analytical Chemistry
3rd Long Exam

PART I. MULTIPLE CHOICE. Choose the letter that corresponds to the **BEST** answer. Write **[]** when the answer is **NOT** in the choices. (25 pts)

1. Transfer of electrons from one reactant to another

- a. precipitation rxn
- b. half rxn
- c. redox rxn
- d. neutralization rxn

2. What is the mole ratio of $\text{Ce}(\text{IV})$ to NO_2^- for the oxidation of nitrite to nitrate using Ce^{4+} in the presence of an acid:



- a. 1:2
- b. 2:1
- c. 1:1
- d. 2:2

3. How many mole(s) of electron is(are) produced in the oxidation of sodium bisulfate (NaHSO_4) to BiO^+ and H^+ under acidic conditions?

- a. 1
- b. 2
- c. 3
- d. 4

4. Azide (N_3^-) was added in the determination of the dissolved oxygen in water sample to remove interferences caused by the presence of what ion?

- a. chloride
- b. fluoride
- c. nitrite
- d. nitrate

5. Which of the following statements is(are) true?

- I. Prepared KMnO_4 solutions should be stored in amber bottles
- II. KMnO_4 solutions are boiled to remove CO_2 which makes the solution basic
- III. $\text{Mn}(\text{II})$ is the product of the degradation of KMnO_4
- IV. KMnO_4 solutions are filtered to remove manganese(IV) oxide

- a. I only
- b. I and II
- c. I and IV
- d. I, II and III

6. What is the oxidation state of carbon in oxalic acid?

- a. +2
- b. +4
- c. +6
- d. +7

7. The complex formed between $\text{Cu}(\text{I})$ and 1,10-phenanthroline has a molar absorptivity of $7000 \text{ L cm}^{-1} \text{ mol}^{-1}$ at 435 nm, the wavelength of maximum absorption. What is the absorbance of a $5.17 \times 10^{-3} \text{ M}$ solution of the complex when measured in a 1.00-cm cell at 435 nm?

- a. 0.0431
- b. 0.0432
- c. 0.432
- d. 0.431

8. In the presence of iodine, thiosulfate ion is oxidized quantitatively to tetrathionate ion. What is the chemical formula of tetrathionate ion?

- a. $\text{S}_4\text{O}_7^{2-}$
- b. $\text{S}_4\text{O}_6^{2-}$
- c. $\text{S}_4\text{O}_8^{2-}$
- d. $\text{S}_4\text{O}_5^{2-}$

9. In Winkler titration, the flocc is produced from

- a. oxidation of I^- to I_2
- b. oxidation of $\text{Mn}(\text{II})$ to $\text{Mn}(\text{III})$
- c. reduction of I_2 to I^-
- d. reduction of $\text{Mn}(\text{II})$ to $\text{Mn}(\text{III})$

10. A component of a UV-Vis spectrophotometer that restricts the radiation being measured to a narrow band that is absorbed or emitted by the analyte.

- a. light source
- b. detector
- c. radiation filter
- d. wavelength selector

11. Component of a UV-Vis instrument that operates by blocking or absorbing all but a restricted band of radiation.

- a. light source
- b. detector
- c. radiation filter
- d. wavelength selector

12. Oxidation of VO^{2+} using permanganate or cerium as standard solution produces $\text{VO}(\text{OH})_2^{+}$, what is the oxidation state of vanadium in $\text{VO}(\text{OH})_2^{+}$?

Analytical Chemistry Exam Multiple Choice

Arshad Iqbal



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web dec 29 2004 procedure if any of the above listed faults are set perform the following using a breakout box check the wiring from the dme to the mdk for open or short to ground if the wiring is correct then the mdk should be replaced important after mdk motor replacement the dme adaptation values must be cleared

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