

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 $\text{VO}(\text{OH})_2^{+}$?

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