

Analytical Chemistry
3rd Long Exam

PART 1. MULTIPLE CHOICE: Choose the letter that corresponds to the **[[?]]** answer. Write **Q** when the answer is **MQ**. In the choices, (23 pts)

1. Transfer of electrons from one reactant to another

a. precipitation rxn c. redox rxn
b. half 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 c. 1:1
b. 2:1 d. 2:3

3. How many mole(s) of electron is(are) produced in the oxidation of sodium bismuthate (NaBiO_4) to BiO^{+} and Na^+ under acidic conditions?

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

4. Azide (N_3^-) was added in the determination of the dissolved oxygen in water samples to remove interferences caused by the presence of white yeast

a. chloride c. nitrite
b. fluoride 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 c. I and IV
b. I and II d. I, II and III

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

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

7. The complex formed between $\text{Cu}(\text{II})$ 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 $5.17 \times 10^{-4} \text{ M}$ solution of the complex when measured in a 1.00-cm cell at 435 nm?

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

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

a. $\text{S}_2\text{O}_3^{2-}$ c. $\text{S}_2\text{O}_4^{2-}$
b. $\text{S}_2\text{O}_5^{2-}$ d. $\text{S}_2\text{O}_6^{2-}$

9. In Winkler titration, the flux is produced from

a. oxidation of I⁻ to I₃⁻ c. reduction of I₃ to I⁻
b. oxidation of $\text{Mn}(\text{II})$ to $\text{Mn}(\text{III})$ 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 c. radiation filter
b. detector 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 c. radiation filter
b. detector d. wavelength selector

12. Oxidation of VO_2^{+} using permanganate or cerium as standard solution produces $\text{V}(\text{OH})_6^{2-}$, what is the oxidation state of vanadium in $\text{V}(\text{OH})_6^{2-}$?

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