

1-qism: Har bir topshiriq 0,9 balldan baholanadi

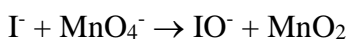
1. Qaysi elementning 1,00 gr na'munasi eng ko'p molekulani o'zida saqlaydi?

- A) Bakminsterfulleren, C₆₀ B) Ozon, O₃
C) Oq fosfor, P₄ D) Oltingugurt, S₈

2. 0,1 M li 1 ml ikki valentli metal saqlagan eritmaning rangi och pushti bo'lib, unga 1 ml konsentirlangan HCl kislotasi eritmasi qo'shilsa, eritma rangi yorqin-ko'k rangga o'zgaradi. Metall ionini aniqlang.

- A) Ca²⁺ B) Mn²⁺
C) Co²⁺ D) Cu²⁺

3. Iodid ion asosli sharoitda permanganat bilan gipoyodit ionigacha quyidagi reaksiya bo'yicha oksidlanadi:



Tenglashtirilgan reaksiya tenglamasida gidroksid ionining iodid ioniga miqdoriy nisbati qanday?

- A) 3 : 1 B) 2 : 1
C) 1 : 1 D) 2 : 3

4. Na[V(CO)₆] kompleksida vanadiyning oksidlanish darajasi qanday?

- A) -1 B) +3
C) +5 D) +6

5. Qaysi kvant sonlar kombinatsiyasini real atomga qo'llash mumkin? Kvant sonlarning kelish ketma – ketligi – [bosh kvant son (n), orbital kvant son (l), magnit kvant son (m_l), spin kvant son (m_s)].

- A) [1, 0, +1/2, +1/2] B) [3, 0, 0, -1/2]
C) [2, 2, 1, +1/2] D) [3, 2, 1, 1]

6. I₃⁻ da markaziy atom I gibridlanishini aniqlang.

- A) sp² B) sp³
C) dsp³ D) d²sp³

7. Pastda keltirilgan atomlarni atom radiusi kamayib borishi taribida joylashtiring.

Pb, P, Cl, F, Si

- A) Cl > F > Pb > Si > P B) Pb > Si > P > F > Cl
C) Pb > Si > P > Cl > F D) Pb > Cl > P > Si > F

8. Quyidagi ikki atomli molekulalardan qaysi biri eng yuqori bog' energiyasiga ega.

- A) CO B) N₂
C) O₂ D) H₂

9. Kumush saqlovchi 1,50 gr ruda eritildi va barcha Ag⁺ 0,124 gr Ag₂S ga aylandi. Rudadagi kumushning massa ulushini aniqlang.

- A) 6,41% B) 7,20%
C) 8,27% D) 10,8%

10. Naproksenda qancha uglerod atomi sp-, sp²- va sp³- gibridlanishda hamda molekulada qancha π-bog' mavjud?

