

TEST

1. $3.01 \cdot 10^{23}$ ta molekuladan iborat moddaning modda miqdori nechaga teng?

- A) 0.25 mol
- B) 0.50 mol
- C) 1.00 mol
- D) 1.50 mol

2. Normal sharoitda 5.6 L gaz necha molga teng?

- A) 0.10 mol
- B) 0.20 mol
- C) 0.25 mol
- D) 0.50 mol

3. 8 g O_2 necha molekuladan iborat?

- A) $3.01 \cdot 10^{22}$
- B) $1.50 \cdot 10^{23}$
- C) $6.02 \cdot 10^{23}$
- D) $1.20 \cdot 10^{23}$

4. Qaysi sharoitda Avogadro qonuni bevosita qo'llanadi?

- A) Turli bosim va temperatura
- B) Bir xil bosim va temperatura
- C) Faqat normal sharoit
- D) Faqat yuqori bosim

5. Bir idishda 2 mol H_2 va 6 mol N_2 bor. H_2 ning hajm ulushi nechaga teng?

- A) 0.20
- B) 0.25
- C) 0.33
- D) 0.75

6. Gazlar aralashmasida qisman bosim nimaga teng?

A) $p_i = n_i / n_{umumiy}$

B) $p_i = p_{umumiy} / n_i$

C) $p_i = \varphi_i \cdot p_{umumiy}$

D) $p_i = V_i / V_{umumiy}$

7. 300 K da va $1.0 \cdot 10^5$ Pa bosimda 1 mol ideal gazning hajmi taxminan nechaga teng?

A) 11.2 L

B) 22.4 L

C) 24.9 L

D) 44.8 L

8. Ideal gaz tenglamasi qaysi ko'rinishda yoziladi?

A) $p \cdot V = R \cdot T$

B) $p \cdot V = n \cdot R \cdot T$

C) $V = n \cdot T$

D) $p = n \cdot R$

9. Gaz zichligini hisoblash formulasi qaysi?

A) $\rho = m / n$

B) $\rho = p \cdot V / m$

C) $\rho = p \cdot M / (R \cdot T)$

D) $\rho = M / V$

10. 0.50 mol CO₂ ning massasi nechaga teng?

A) 11 g

B) 22 g

C) 44 g

D) 88 g

11. Ekvivalent massasi E nimaga teng?

A) $E = M \cdot z$

B) $E = M / z$

C) $E = z / M$

D) $E = M + z$

12. H₂SO₄ kislotasining ekvivalent soni (z) nechaga teng?

- A) 1
- B) 2
- C) 3
- D) 4

13. $\text{Ca}(\text{OH})_2$ ning ekvivalent massasi to'g'ri topilgan qatorni aniqlang.

($M = 74 \text{ g} \cdot \text{mol}^{-1}$)

- A) 74
- B) 37
- C) 18.5
- D) 148

14. Ekvivalent qonuni qaysi ko'rinishda yoziladi?

- A) $m_1 + m_2 = \text{const}$
- B) $m_1 \cdot E_1 = m_2 \cdot E_2$
- C) $m_1 / E_1 = m_2 / E_2$
- D) $E_1 / m_1 = E_2 / m_2$

15. 0.25 mol gaz normal sharoitda qanday hajm egallaydi?

- A) 2.24 L
- B) 4.48 L
- C) 5.60 L
- D) 11.2 L

16. Qaysi kattalik har doim K da olinadi?

- A) Bosim
- B) Massa
- C) Temperatura
- D) Hajm

17. Gaz tenglamasida bosim qaysi birlikda olinadi?

- A) atm
- B) mm simob ustuni
- C) Pa
- D) bar

18. 1 mol gazdagi molekularlar soni nechaga teng?

- A) $3.01 \cdot 10^{23}$
- B) $6.02 \cdot 10^{23}$

- C) $1.20 \cdot 10^{23}$
- D) $12.04 \cdot 10^{23}$

19. Gazlar aralashmasining o'rtacha molyar massasi qanday topiladi?

- A) Massalar yig'indisi
- B) Hajmlar yig'indisi
- C) Ulushlar bilan o'rtacha qiymat
- D) Eng katta molyar massa

20. Qaysi holatda ideal gaz tenglamasini ishlatish MAQSADGA MUVOFIQ?

- A) Normal sharoitda
- B) Faqat qattiq moddalarda
- C) Bosim va temperatura o'zgarganda
- D) Eritmalarda

TEST JAVOBLARI (ALOHIDA)

- 1. B
- 2. C
- 3. B
- 4. B
- 5. B
- 6. C
- 7. C
- 8. B
- 9. C
- 10. B
- 11. B
- 12. B
- 13. B
- 14. C
- 15. C
- 16. C
- 17. C
- 18. B
- 19. C
- 20. C