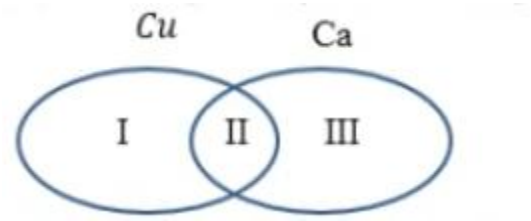
# KIMYO

**1.** $KHCO_3$ qizdirilganda 5,6 litr (n.sh) gaz ajraldi. Reaksiyaing parchalinish unumi 80% bo`lsa qoldiqdagi $KHCO_3$ miqdorini (mol) toping.

A) 0,5 B) 0,25 C) 0,125 D) 0,625

**2.** Venn diagrammasida asosida metallarning o`ziga xos va umumiy xususiyatlarini moslang.




a) valentligi doim II b) $Me^{+2}$ ionida 18 ta electron bor c) $MeCl_2$ tuzi suvda eriydi d) oksidi suvda erimaydi

A) I-d; II-a,c; III-b

B) I-a; II-c; III-b,d

C) I-b; II-c; III-a,d

D) I-d; II-c; III-a,b

**3.** $NH_3$ ga HCl ta`sir ettirilganda qanday tuz hosil bo`ladi.

A) ammniy xlorid

B) ammoniy xlorit

C) nordon tuz

D) asosli tuz

**4.** 0,1 mol sulfit angidrid atomlar soni x xramm arsenat kislota molekulalari soniga teng. X ni toping.

A) 24,1 B) 14,2 C) 41,2 D) 42,6

**5.** 2:3 mol nisbatda temir va rux aralashmasini xlorlash uchun 26,88 litr (n.sh) xlor gazi sarflandi. Hosil bo`lgan tuzlarga mo`l miqdorda natriy gidroksid eritmasi ta`sir ettirilganda hosil bo`lgan cho`kma massasi (g) topilsin.

A) 102,2 B) 59,4 C) 42,8 D) 95,4

**6.** Quyidagi tuzilish uglerodning qaysi allotropiyasiga mos keladi?

$-C \equiv C - C \equiv C-(-C \equiv C -)n$

A) polien

B) Grafit

C) karbin

D) Fluren

**7.** Bariy xlorat molekulasidagi (sigma) bog‘lar yig‘indisi, umumiy bog‘lari (sigma+pi) soniga teng bo‘lgan modda?

A) mochevina$(NH_2)_2CO$

B) bariy borat

C) kaliy fosfat

D) alyuminiy karbonat

**8.** Teng massadagi $Mg_3N_2$ va $CaCO_3$ aralashmasi mo‘l miqdordagi xlorid kislotada eritilganda 16,8 litr (n.sh.) gaz ajraldi. Dastlabki aralashma massasini toping.

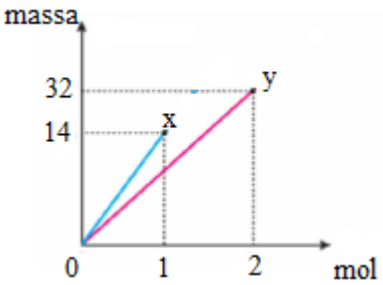
A) 200 B) 100

C) 50 D) 25

**9.** $KMnO_4 \rightarrow K_2MnO_4 + MnO_2 + O_2$ reaksiyasida ajralgan kislorod miqdori (mol) parchalanmay qolgan $KMnO_4$ moliga teng bo`lsa, $KMnO_4$ parchalanish unumini toping.

A)50 % B) 66,(6) % C) 33,(3) D) 40%

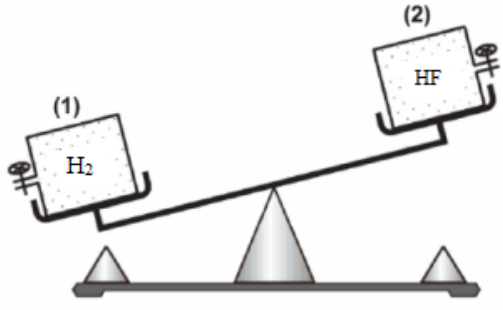
**10.** Quyidagi digramma orqali qaysi moddaning tarkibidagi atomlar moli va massa ifodalangan?




A)$SiO_2$ B) $Li_2O$ C) $NO_2$ D) $Li_2O_2$

**11.** Ikkinchi idishda qancha massa modda bo`lsa, birinchi idishda shuncha mol modda bor. Quyidagi qaysi amallar tarozi pallalarini muvozanatlashtiradi?

1) $H_2$ ning miqdori ikki barobarga orttirilsa
2) HF miqdori ikki barobar orttirilsa
3) HF ga yana bir mol shu gazdan qo`shilsa
4) $H_2$ va HF ning mol nisbati 10:1 ga tenglashtirilganda
5) $H_2$ ning miqdorini 10 molga kamaytirilsa
6) har ikki idishdagi moddalar miqdorlarini tenglashtirish

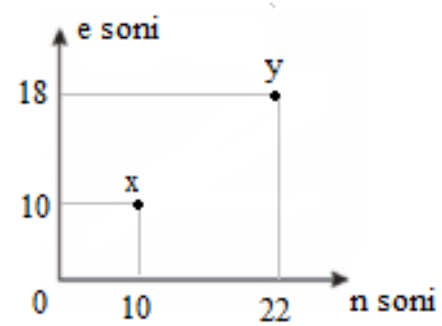



A)1 3 5 B) 2 4 6 C) 1 3 4 D) 2 4

**12.** Quyida jadvalda berilgan x va y larga mos keluvchi zarrachalarni toping.

**1)** $^{40}Ca^{2+}$ **2)** $^{40}Ar$ **3)** $^{20}F^{-}$ **4)** $^{37}Cl^{-}$

**5)** $^{17}O^{2-}$ **6)** $^{20}Ne$ **7)** $^{21}Na^{+}$ **8)** $^{43}Sc^{3+}$




A)x= 6, 7 y= 2, 8
B) x= 3, 5, 6 y= 1,2, 4
C) x= 5, 6, 7 y= 1, 2, 8
D) x= 3, 6 y= 2, 8

**13.** 3 mol magniy azot bilan qizdirilganda reaksiyaga kirishdi.Olingan mahsulotning massasi brom atomining massasidan qanchaga og'ir?
A) 60 B) 100 C) 20 D) 25

**14.** Tarkibida 20% qo'shimchalari bo'lgan ohaktoshdan 33,6 l karbonat angidrid olingan bo'lsa reaksiya uchun necha gr ohaktosh olingan (reaksiya unumi-75%)
A) 160 B) 250 C) 200 D) 240

**15.** Kumush nitrat eritmasiga kaliy xlorid qo`shilganda hosil bo`lgan cho`kma massasi dastlabki kaliy xlorid massasidan 13,8 gr ga ko`p bo`lsa, dastlabki tuzlarnig massalari yig`indisini toping.
A) 48,9 B) 34 B) 14,9 D) 28,7

**16.** $Zn(NO_3)_2$ va $KNO_3$ termik parchalanganda 4 mol qo`ng`ir rangli gaz va 2 mol oddiy modda hosil bo`lgan bo`lsa, dastlabki tuzlarning mollarini toping.
A) 2;1 B) 2;2 C) 3;1 D) 1;2

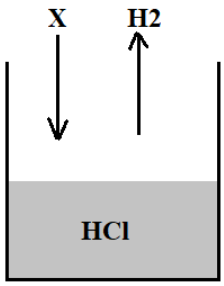
**17.** Kislotali oksid, nordon tuz, ishqor berilgan javobni belgilang.
A) $MnO_2$; NaHS; KOH
B) $P_2O_5$; $NaHSO_4$; $Be(OH)_2$
C) $SO_3$; CaOHCl; $Mg(OH)_2$
D) $CrO_3$; $KHCO_3$; $Sr(OH)_2$

**18.** 24,5 gr Bertole tuzi parchalanishidan hosil bo`lgan kislorodni qanch gr kaliypermanganat 50 % unum bilan parchalanishidan olish mumkin.
A) 94,8 B) 47,4 C) 31,6 D) 189,6

**19.** $2X_3 + kY_m \rightarrow 3X_nY_m$ reaksiya tenglamasidagi n va k ning qiymatlarini mos ravishda aniqlang.
A) *1; 6*
B) *2; 3*
C) *1; 3*
D) *2; 1*

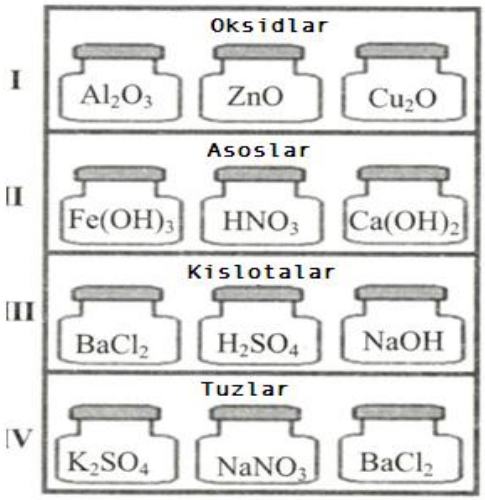
**20.** III valentli metall nitridi tarkibida metall bilan azotning massa nisbatlari 3:2 bo'lsa modda molyar massasini(g/mol) aniqlang.
A) *35* B) *83* C) *87* D) *49*

**21.** X qaysi metall bo`lishi mumkin ?




A)Cu B)Au C)Ag D)Fe

**22.** Labaratoriya xonasidagi reaktivlar javonining qaysi qavat(lar)ida moddalar noto`g`ri joylashtirilgan.




A) I, III B) II,IV C) I, II D) II,III

**23.** Ketma-ketjoylashgan X, Y, Z, T, L, M elementlari tarkibidagi protonlari yigindisi 75 ga teng bolsa, M elementining eng yuqori valentligini toping.

A) VI B) III C) IV D) V

**24.** Quyidagilardan faqat normal tuzlarni ko`rsating.

1) $K_2SO_4$ 2) $(NH_4)_2CO_3$ 3) $AlOHSO_4$
4) $Na_2HPO_3$ 5) $KH_2PO_4$ 6) CaClBr
7) $CaOCl_2$

A) 1,6 B) 2,4 C) 2,7 D) 3,5

**25.** Bir idishga 1350 gr nitrat kislota (p=1,5gr/mol) sig`ishi ma`lum bo`lsa, bu idishga necha mol atom saqlagan suv sigadi.

A) 50 B) $150 \cdot N_A$ C) 337,5 D) 150

**26.** Qaysi molekula tarkibidagi elementlar sonining atomlar soniga nisbati 1:3 ga teng?

A) $AlPO_4$ B) $Fe(NO_3)_2$
C) $CaHPO_3$ D) $CuSO_4$

**27.** Bariy gidroksid va mo‘l miqdordagi nitrat kislota ta’sirlashuvidan olingan tuz molekulasi tarkibidagi atomlar sonini aniqlang.

A) 5 B) 7 C) 9 D) 4

**28.** Qaysi atomlarning massalari $1{,}66 \cdot 10^{-23}$ g ga farq qiladi? 1u = $1{,}66 \cdot 10^{-24}$g.

A) He, N
B) Ar, K
C) Ne, Ca
D) Mn, Fe

**29.** Quyidagi ma’lumotlarning qaysilarida xlor oddiy modda tarzida ifodalangan?

1) Xlorning uchta elektron pog‘onasi mavjud;
2) xlor yashil tusli, bo‘g‘uvchi gaz;
3) fosgenning 71,7 % ini xlor tashkil etadi;
4) temirning xlorda yonishidan $FeCL_3$ hosil bo‘ladi;
5) xlorning geliyga nisbatan zichligi 17,75 ga teng;
6) tabiatda xlorning ikkita ($35_{CL}$ va $37_{CL}$) barqaror izotopi mavjud.

A) 1, 3 B) 1, 3, 6 C) 2, 4, 5, 6 D) 2, 4,

**30.** 40 gr mis va kalsiy aralashmasiga xlorid kislota ta`sir etirilganda 13,44 litr (n.sh) gaz ajraldi. Dastlabki aralashmadagi B guruhcha elementining molini toping.

A) 0,5 B) 1/3 C) 16 D) 1/4